County Library
Of Los Angeles Public
READ • LISTEN • EXPLORE • CREATE

County of Los Angeles Public Library ■ www.colapublib.org
7400 East Imperial Hwy., Downey, CA 90242 ■ (562) 940-8400

"Enriching Lives"

Margaret Donnellan Todd
County Librarian

ADOPTED
BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES

35 June 16, 2015

PATRICK OGAWA
ACTING EXECUTIVE OFFICER

June 16, 2015

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, CA 90012

Dear Supervisors:

APPROVE THE GROUND LEASE AND JOINT USE AGREEMENT WITH THE LOS NIETOS SCHOOL DISTRICT FOR THE CONSTRUCTION AND OPERATION OF THE LOS NIETOS LIBRARY (SUPERVISORIAL DISTRICT 4) (3 VOTES)

SUBJECT

Approval of the recommended actions will adopt the Mitigated Negative Declaration and Mitigation Monitoring Report Program, approve the Ground Lease and Joint Use Agreement between the Los Nietos School District (District) and the County of Los Angeles for Educational/Recreational use of District's property for the purpose of creating a new public library in the Los Nietos community (Los Nietos Library).

IT IS RECOMMENDED THAT THE BOARD:

1. Consider the Mitigated Negative Declaration for the Los Nietos Library Project together with comments received during the public review period; find that the Mitigated Negative Declaration reflects the independent judgment and analysis of the Board of Supervisors; adopt the Mitigation Monitoring and Reporting Program (MMRP), finding that the MMRP is adequately designed to ensure compliance with the mitigation measures during project implementation; and find on the basis of the whole record before the Board of Supervisors that there is no substantial evidence that the project will have a significant effect on the environment; and adopt the Mitigated Negative Declaration.

2. Approve the Los Nietos Library Project, and instruct the Mayor to execute the Ground Lease and Joint Use Agreement.

3. Authorize and delegate authority to the County Librarian, or designee, to approve and execute amendments and changes to construction scope subject to the terms of the Ground Lease and Joint Use Agreement, and within the Project budget, and approved as to form by County Counsel.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

Approval of the recommended actions will adopt the Mitigated Negative Declaration and Mitigation Monitoring Report Program (MMRP) for the Los Nietos Library Project; approve the Project and the execution of the Ground Lease and Joint Use Agreement between the Los Nietos School District (District) and the County of Los Angeles for Educational/Recreational use of District's property for the purpose of constructing the Los Nietos Library and operation upon completion. Community Development Commission (CDC) is managing the design and construction of the new library.

The Public Library currently operates the Los Nietos Library at 11644 East Slauson Avenue in unincorporated Whittier within a facility shared with the Los Nietos Community and Senior Center. The Public Library seeks property for the construction of a new larger and independent facility to be used for a library and community meeting room activities.

The District owns property at 11425 East Rivera Road (Property), the Los Nietos Middle School. The County will use 0.668 acres of current field space of the Los Nietos Middle School Property to construct and operate an approximately 7,000 square foot public library facility in the unincorporated Los Nietos area. The proposed project will include construction of the new library including related site work, parking, landscaping along with the required furniture, fixtures, and equipment.

Implementation of Strategic Plan Goals

Approval of the recommended actions is consistent with the County's Strategic Plan Goals of Operational Effectiveness/Fiscal Sustainability (Goal 1), Community Support and Responsiveness (Goal 2), and Integrated Service Delivery (Goal 3) by investing in public infrastructure that will improve access to Public Library services.

FISCAL IMPACT/FINANCING

On September 30, 2014, the Board of Supervisors authorized an appropriation adjustment to transfer $7,000,000 of Enhanced Unincorporated Services Area funds from Capital Project No. 77486 to the Project and Facility Development Budget; and authorized the Chief Executive Officer to execute a Funding Agreement in the amount

of $7,000,000 and all related documents, with CDC for the construction of the Los Nietos Library. On November 5, 2014, the Board of Supervisors authorized CDC to execute an Architectural Services Contract and all related documents with Ovalle + EMar Studio to provide design and other related services for the proposed Los Nietos Library project using up to $676,289 in the Fourth District Project and Facilities Development Budget with a contingency of $67,628 (10%) using the same source of funds, to provide for any unforeseen architectural and design project costs.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

California Education Code Section 10900 et. seq. authorizes public authorities to organize, promote, and conduct such programs that will contribute to the attainment of general educational and recreational objectives for children and adults, and further empowers public entities to cooperate with each other to attain such objectives. This section authorizes the use of joint use agreements on school district properties for the use of libraries and meeting places.

The District and the Public Library have met over the last year to discuss how to address the mutual educational and library needs of the Los Nietos community. The attached Ground Lease and Joint Use Agreement was reviewed by the District, County's risk managers, and County Counsel attorneys.

The Ground Lease and Joint Use Agreement was approved by the District on April 22, 2015 and is being recommended for approval of the Los Angeles County Board of Supervisors.

ENVIRONMENTAL DOCUMENTATION

As lead agency, the County prepared an Initial Study for the proposed project in compliance with the California Environmental Quality Act (CEQA). The Initial Study identified one potentially significant effect of the project in the area of Cultural Resources. Prior to the release of the proposed Initial Study and Mitigated Negative Declaration for public review, revisions in the project were made or agreed to which would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur, as follows:

Cultural Resources: If potentially significant subsurface prehistoric or historic archaeological or paleontological resources are encountered during construction and/or earthmoving activities, the evaluation of any such resources shall proceed in accordance with the criteria outlined in Section 106 of the National Historic Preservation Act (1966, as amended), in accordance with CEQA Guidelines (1970, as amended),

and in accordance with the County of Los Angeles General Plan. Specifically, all work must be halted in the immediate vicinity of the cultural resource found until a qualified archaeologist can assess the significance of the resource.

The Initial Study and project revisions showed that there is no substantial evidence, in light of the whole record before the Board of Supervisors, that the project as revised may have a significant effect on the environment. Based on the Initial Study and project revisions, a Mitigated Negative Declaration was prepared for this project.

Public Notice was published in the Whittier Daily News on April 2, 2015, and posted at the Los Angeles Registrar-Recorder/County Clerk (RR/CC) office in Norwalk, pursuant to Public Resources Code Sections 21092 and 21092.3. One comment was received from the County of Los Angeles Department of Parks and Recreation (DPR) indicating that the project will not affect any DPR facilities.

The documents and other materials constituting the record of proceedings upon which the Board of Supervisors decision is based are located at the Los Angeles County Community Development Commission at 700 W. Main Street in Alhambra. The custodian of these documents and materials is Donald Dean, Environmental Officer for CDC.

The project is not exempt from payment of a fee to the California Department of Fish and Wildlife, pursuant to Section 711.4 of the Fish and Game Code to defray the costs of fish and wildlife protection and management incurred by the California Department of Fish and Wildlife. Upon the Board of Supervisors adoption of the Mitigated Negative Declaration, CDC will file a Notice of Determination in accordance with Section 21152(a) of the California Public Resources Code and pay the required filing and processing fees with RR/CC in the amount of $2,231.25.

IMPACT ON CURRENT SERVICES

Full services will be available at the current Los Nietos Library for a portion of the construction period prior to the conversion of the existing library to provide additional space for Community and Senior Services operations. When the renovation begins an express service temporary library will be provided at a location within the Los Nietos Library service area. Full services will also be available at other nearby County Libraries during the period that the temporary library will be in operation.

Approval of the recommended actions will allow the Public Library to continue to provide services to the public for many years to come.

CONCLUSION

It is recommended that the Executive Office, Board of Supervisors, return two certified copies of the Minute Order to Public Library, and one copy to CDC.

If there are any questions or there is a need for additional information, please contact Yolanda De Ramus, Chief Deputy, at (562) 940-8412.

Respectfully submitted,

MARGARET DONNELLAN TODD
County Librarian

MDT:YDR:MA:FH:EM:bf

Enclosures

c: Chief Executive Office
County Counsel
Executive Office, Board of Supervisors
Auditor-Controller

County of Los Angeles

Los Nietos Library Project

Draft Initial Study – Mitigated Negative Declaration

January 2015

Environmental Scientists Planners Engineers

DRAFT
INITIAL STUDY –
MITIGATED NEGATIVE DECLARATION

LOS NIETOS LIBRARY PROJECT

Prepared by:

County of Los Angeles
700 West Main Street
Alhambra, CA 91801

Prepared with the assistance of:

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, California 93003

January 2015

County of Los Angeles
Community Development Commission

DRAFT MITIGATED NEGATIVE DECLARATION
CALIFORNIA ENVIRONMENTAL QUALITY ACT

PROJECT TITLE: Los Nietos Library Project

PROJECT DESCRIPTION: The proposed project involves the construction of a new one-story library, which would be up to approximately 7,000 square feet in size. Surface parking areas would be located immediately south of the proposed library structure. Access to the project site would be via Duchess Drive. The proposed project would include landscape features, utility connections, drive way curb cuts, sidewalks, and other required site elements. The project site is generally level and construction would be on-grade; therefore, no excavation beyond typical utility trenching and re-compaction would be required. Cut and fill would be minimal, and are anticipated to be balanced on the project site.

PROJECT LOCATION: The project would be located on approximately 0.8 acres within the northeastern portion of Assessor's Parcel No. 8178-025-902, which encompasses approximately 3.8 acres. This parcel is located southwest of the Slauson Avenue/Duchess Drive intersection in the West Whittier – Los Nietos area of Los Angeles County, California. The project site is located on and bordered to the south and west by an existing grass-covered sports field; Los Nietos Middle School is located southwest of the project site. Surrounding land uses include single-family residential east across Duchess Drive and south across Rivera Road, and a mix of single-family residential and commercial north along Slauson Avenue.

MITIGATION MEASURE INCLUDED IN THE PROJECT TO AVOID POTENTIALLY SIGNIFICANT IMPACTS:

The following mitigation measure is required:

CR-1 Archaeological and Paleontological Resources. If potentially significant subsurface prehistoric or historic archaeological or paleontological resources are encountered during construction and/or earthmoving activities, the evaluation of any such resources shall proceed in accordance with the criteria outlined in Section 106 of the National Historic Preservation Act (1966, as amended), in accordance with CEQA guidelines (1970, as amended), and in accordance with the County of Los Angeles General Plan. Specifically, all work must be halted in the immediate vicinity of the cultural resource found until a qualified archaeologist can assess the significance of the resource.

FINDING OF NO SIGNIFICANT EFFECT. Based on the attached Initial Study-Mitigated Negative Declaration, it has been determined that the project will not have a significant effect on the environment, provided that the suggested mitigation measure is incorporated.

This report prepared on 50% recycled paper with 50% post-consumer content.

TABLE OF CONTENTS

Page

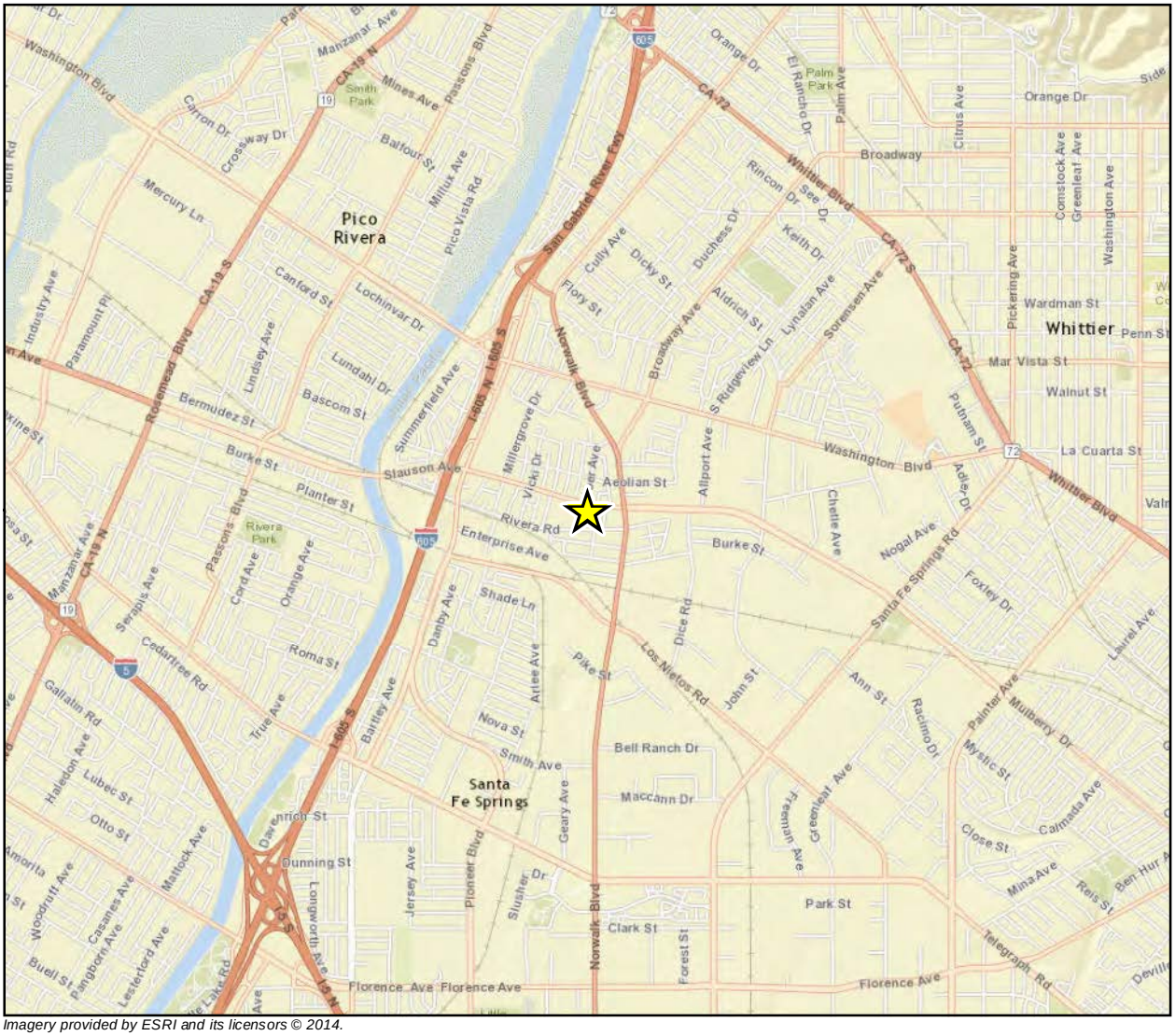
List of Figures

List of Tables

Appendices

INITIAL STUDY

PROJECT TITLE	Los Nietos Library Project
LEAD AGENCY NAME AND ADDRESS	County of Los Angeles/Community Development Commission of the County of Los Angeles (LACDC) 700 West Main Street Alhambra, CA 91801
CONTACT PERSON AND PHONE NUMBER	Donald Dean, Environmental Officer Community Development Commission of the County of Los Angeles
PROJECT SPONSOR'S NAME AND ADDRESS	County of Los Angeles 7400 E. Imperial Highway Downey, CA 90242
PROJECT LOCATION	The project would be located on approximately 0.8 acres within the northeastern portion of Assessor's Parcel No. 8178-025-902, which encompasses approximately 3.8 acres. This parcel is located southwest of the Slauson Avenue/Duchess Drive intersection in the West Whittier – Los Nietos area of Los Angeles County, California. The project site is located on and bordered to the south and west by an existing grass-covered sports field; Los Nietos Middle School is located southwest of the project site. Surrounding land uses include single-family residential east across Duchess Drive and south across Rivera Road, and a mix of single-family residential and commercial north along Slauson Avenue. Figure 1 illustrates the project's regional setting and Figure 2 illustrates the project's site-specific location. Site photos are included in Figures 3a through 3c.
GROSS ACREAGE	Approximately 3.8 acres
GENERAL PLAN DESIGNATION	Public and Semi-Public Facilities (P)
ZONING	Single-family Residential (R-1) on north and eastern portion of parcel Residential/Agriculture (R-A) on southwestern portion of parcel



Imagery provided by ESRI and its licensors © 2014.

Project Location

N

0 2,000 4,000

Feet

Regional Location

Figure 1

Imagery provided by Google and its licensors © 2014.

Approximate Project Area
Parcel Boundary (shifted)

0 100 200
Feet

N

Project Location

Figure 2

Photo 1: Looking west at project site from across Duchess Drive.

Photo 2: Residences across Duchess Drive, east of project site.

Site Photos

Figure 3a

Photo 3: Residences across Slauson Avenue, north of project site.

Photo 4: Looking southwest into project site from corner of Slauson Avenue and Duchess Drive.

Site Photos

Figure 3b

Photo 5: Intersection of Rivera Road and Orange Street, southeast of project site.

Photo 6: Looking northwest at project site from Duchess Drive.

Site Photos

Figure 3c

DESCRIPTION OF PROJECT

The proposed project involves the construction of a new one-story library, which would be up to approximately 7,000 square feet in size. Surface parking areas would be located immediately south of the proposed library structure. Access to the project site would be via Duchess Drive. The proposed project would include up to trees, other landscape features, utility connections, drive way curb cuts, sidewalks, and other required site elements. The project site is generally level and construction would be on-grade; therefore, no excavation beyond typical utility trenching and re-compaction would be required. Cut and fill would be minimal, and are anticipated to be balanced on the project site.

SURROUNDING LAND USES AND SETTING

The project site is bordered to the south and west by an existing grass-covered sports field; Los Nietos Middle School is located southwest of the project site. Surrounding land uses include single-family residential east across Duchess Drive and south across Rivera Road, and a mix of single-family residential and commercial north along Slauson Avenue. Figure 1 illustrates the project's regional setting and Figure 2 illustrates the project's site-specific location. Site photos are included in Figures 3a through 3c.

OTHER PUBLIC AGENCIES WHOSE APPROVAL MAY BE REQUIRED

The County of Los Angeles is the lead agency for the proposed project and thus would have discretionary approval authority over the project. No other agency approvals are required.

MAJOR PROJECTS IN THE AREA

Project/Case No.	*Description and Status*
Fred C. Nelles Property	Proposed redevelopment of the former 74-acre Nelles Youth Correctional Facility at 11850 Whittier Boulevard with large retail, commercial, and residential uses. Public Review of Draft EIR ended December 1, 2014.

REVIEWING AGENCIES

Responsible Agencies	*Special Reviewing Agencies*	*Regional Significance*
☐ None	☐ None	☐ None
Regional Water Quality Control Board:	☐ Santa Monica Mountains Conservancy	☐ SCAG Criteria
☒ Los Angeles Region	☐ National Parks	☒ Air Quality
☐ Lahontan Region	☐ National Forest	☐ Water Resources
☐ Coastal Commission	☐ Edwards Air Force Base	☐ Santa Monica Mtns. Area
☐ Army Corps of Engineers	☐ Resource Conservation District of Santa Monica Mountains Area	

Trustee Agencies

☐ None
☐ State Dept. of Fish and Wildlife
☐ State Dept. of Parks and Recreation
☐ State Lands Commission
☐ University of California (Natural Land and Water Reserves System)

County Reviewing Agencies

☒ DPW:
- Land Development Division (Grading & Drainage)
- Geotechnical & Materials Engineering Division

☒ Fire Department
- Planning Division
- Land Development Unit
☐ Sanitation District
☐ Public Health/ Environmental Health Division: Land Use Program (OWTS), Drinking Water Program (Private Wells), Toxics Epidemiology Program (Noise)
☐ Sheriff Department
☐ Parks and Recreation
☐ Subdivision Committee

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is "Potentially Significant" or "Potentially Significant Unless Mitigation Incorporated" as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agriculture and Forest Resources	☐ Air Quality
☐ Biological Resources	☒ Cultural Resources	☐ Geology/Soils
☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials	☐ Hydrology/Water Quality
☐ Land Use/Planning	☐ Mineral Resources	☐ Noise
☐ Population/Housing	☐ Public Services	☐ Recreation
☐ Transportation/Traffic	☐ Utilities/Service Systems	☐ Mandatory Findings of Significance

DETERMINATION:

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potential significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

3/5/15
Date

Donald Dean
Environmental Officer
Community Development Commission of the County of Los Angeles

ENVIRONMENTAL CHECKLIST

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
I. AESTHETICS – Would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Be visible from or obstruct views from a regional riding or hiking trail?	☐	☐	☒	☐
c) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
d) Substantially degrade the existing visual character or quality of the site and its surroundings because of height, bulk, pattern, scale, character, or other features?	☐	☐	☒	☐
e) Create a new source of substantial shadows, light, or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

a-c) The project site is located and bordered to the south and west by an existing grass-covered sports field, as shown on Figures 3a, 3b, and 3c. The project site is bordered to the north and east by an approximately 6-feet tall black chain link fence. The visual character of the site is a vacant field in an urban area. The site is currently surrounded by residential and institutional uses. The project site is essentially flat and contains no scenic vistas or other identified scenic resources, such as, rock outcroppings, historic buildings, or trees. There are no designated scenic highways in the project site vicinity.

The project would alter views of the site from Slauson Avenue, Duchess Drive, and Rivera Road. However, the proposed library would be compatible with existing urban uses and would not affect views of or from scenic vistas. Impacts would be **less than significant.**

d) The proposed library would create new sources of light and glare beyond existing conditions. New sources of light would include building lighting and parking lot lighting. Glare could result during daylight hours from vehicles parked on-site and from reflective building materials. However, the proposed library would not involve unusual levels of lighting beyond those associated with the adjacent school. In addition, light and glare sources resulting from the proposed project would be minimized through on-site landscaping and appropriate building materials. Therefore, impacts would be **less than significant**.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
II. AGRICULTURE AND FOREST RESOURCES --In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. -- Would the project:				
a) Convert Prime Farmland, Unique Farmland, Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, with a designated Agricultural Opportunity Area, or with a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
II. AGRICULTURE AND FOREST RESOURCES --In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. -- Would the project:				
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

The Farmland Mapping and Monitoring Program (FMMP) produces maps and statistical data that are used for analyzing impacts on California's agricultural resources. Agricultural land is rated according to soil quality and irrigation status; the best quality land is called *Prime Farmland*. The maps are updated every two years with the use of a computer mapping system, aerial imagery, public review, and field reconnaissance. FMMP produces *Important Farmland Maps*, which are a hybrid of resource quality (soils) and land use information. Agricultural Opportunity Areas (AOAs) are a County identification tool that indicates land where commercial agriculture is taking place and/or is believed to have a future potential based on the presence of prime agricultural soils, compatible adjacent land uses, and existing County land use policy.

The California Land Conservation Act of 1965--commonly referred to as the Williamson Act--enables local governments to enter into contracts with private landowners for the purpose of

restricting specific parcels of land to agricultural or related open space use. The only Williamson Act contract lands in the County are located on Catalina Island and held by the Catalina Island Conservancy as set asides for open space and recreational purposes. Therefore, there are no agricultural Williamson Act contracts in the remainder of the unincorporated County.

The County contains important and prime farmland, and the Angeles National Forest and a portion of the Los Padres National forest are also located in the County. Los Angeles County has been mapped by the California Department of Forestry and Fire Protection to identify the different categories of land cover capable of being sustained therein, including forests, woodlands, wetlands, and shrubs, for example.

a) The project site has been previously disturbed and the surrounding areas are developed with residential and institutional uses. Review of the Farmland Mapping and Monitoring Program (FMMP) maps prepared by the California Department of Conservation confirmed that neither the project site nor adjacent land is designated Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the FMMP (California Department of Conservation, California Important Farmland Finder). In addition, the project site is not designated as an Agricultural Opportunity Area by the County of Los Angeles (Los Angeles County, Department of Regional Planning, GIS-NET3). **No impact** would occur.

b) The project site is zoned Single-family Residential (R-1) and Residential/Agriculture (R-A) and is not enrolled in a Williamson Act contract. The project site is currently a grass sports field and is not being utilized to grow crops. In addition, the project site is not designated as an Agricultural Opportunity Area by the County of Los Angeles (Los Angeles County, Department of Regional Planning, GIS-NET3). The proposed project would not conflict with any zoning designations designed to promote agriculture. **No impact** would occur.

c-e) Neither the site nor adjacent areas contain forest or agricultural resources or are used for timber production or agriculture (Los Angeles County, Department of Regional Planning, GIS-NET3; Los Angeles County GIS Data Portal, 2014). As described above, although the project site is partly zoned Single-family Residential (R-1) and Residential/Agriculture (R-A), it is a grass-covered sports field and is not being utilized to grow crops. Therefore, the proposed project would not damage or result in the loss of forestry or agricultural resources, and it would not conflict with any zoning designations designed to preserve timber or agricultural resources. **No impact** would occur.

	Potentially Significant Impact	**Potentially Significant Unless Mitigation Incorporated**	**Less than Significant Impact**	**No Impact**
III. AIR QUALITY -- Would the project:				
a) Conflict with or obstruct implementation of applicable air quality plans of either the South Coast AQMD (SCAQMD) or the Antelope Valley AQMD (AVAQMD)?	☐	☐	☐	☒

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
III. AIR QUALITY -- Would the project:				
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☐	☐	☒	☐
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	☐	☐	☒	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e) Create objectionable odors affecting a substantial number of people?	☐	☐	☐	☒

The project site is within the South Coast Air Basin (the Basin), which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). As the local air quality management agency, the SCAQMD is required to monitor air pollutant levels to ensure that state and federal air quality standards are met and, if they are not met, to develop strategies to meet the standards.

Depending on whether or not air quality standards are met or exceeded, the Basin is classified as being in "attainment" or "nonattainment." The project site is located in the part of the Basin which is in nonattainment for both the federal and state standards for ozone, PM_{10}, and $PM_{2.5}$ (California Air Resources Board, June 2013). Thus, the Basin is required to implement strategies to reduce pollutant levels to recognized acceptable standards. This non-attainment status is a result of several factors, the primary ones being the naturally adverse meteorological conditions that limit the dispersion and diffusion of pollutants, the limited capacity of the local airshed to eliminate pollutants from the air, and the number, type, and density of emission sources within the Basin. The health effects associated with criteria pollutants are described in Table 1.

Table 1
Health Effects Associated with Criteria Pollutants

Pollutant	Adverse Effects
Ozone	(1) Short-term exposures: pulmonary function decrements and localized lung edema in humans and animals and risk to public health implied by alterations in pulmonary morphology and host defense in animals; (2) long-term exposures: risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (3) vegetation damage; and (4) property damage.
Carbon monoxide (CO)	(1) Aggravation of angina pectoris and other aspects of coronary heart disease; (2) decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (3) impairment of central nervous system functions; and (4) possible increased risk to fetuses.
Nitrogen dioxide (NO_2)	(1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (2) risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (3) contribution to atmospheric discoloration.
Sulfur dioxide (SO_2)	(1) Bronchoconstriction accompanied by symptoms that may include wheezing, shortness of breath, and chest tightness during exercise or physical activity in persons with asthma.
Suspended particulate matter (PM_{10})	(1) Excess deaths from short-term and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease (including asthma).[a]
Suspended particulate matter ($PM_{2.5}$)	(1) Excess deaths from short- and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes, including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children, such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease, including asthma.[a]

Source: U.S. Environmental Protection Agency, 2008.
[a]More detailed discussions on the health effects associated with exposure to suspended particulate matter can be found in the following documents: Office of Environmental Health Hazard Assessment, Particulate Matter Health Effects and Standard Recommendations, www.oehha.ca.gov/air/toxic_contaminants/PM10notice.html#may, May 9, 2002; and EPA, Air Quality Criteria for Particulate Matter, October 2004.

The SCAQMD has adopted an Air Quality Management Plan (AQMP) that provides a strategy for the attainment of state and federal air quality standards. The South Coast Air Basin is classified as being in "attainment" for federal and state carbon monoxide standards. According to the AQMP, all areas within the South Coast Air Basin have been in attainment of federal carbon monoxide standards since 2003 and no area exceeded state standards in 2011. The highest levels of carbon monoxide concentrations listed in SCAQMD's most recent AQMP (2013) were 6.0 parts per million (ppm), substantially lower than the California 1-hour standard of 20 ppm. (Greenhouse gas emissions are addressed below in Section VII, *Greenhouse Gas Emissions*.) The SCAQMD recommends the use of quantitative thresholds to determine the significance of temporary construction-related pollutant emissions and project operations. These thresholds are shown in Table 2.

Table 2
SCAQMD Air Quality Significance Thresholds

Pollutant	Mass Daily Thresholds	
	Operation Thresholds	Construction Thresholds
NO_X	55 lbs/day	100 lbs/day
ROG[1]	55 lbs/day	75 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

[1] Reactive Organic Gases (ROG) are formed during combustion and evaporation of organic solvents. ROG are also referred to as Volatile Organic Compounds (VOC).
Source: SCAQMD, http://www.aqmd.gov/ceqa/handbook/signthres.pdf, March 2011.

The SCAQMD has also developed Localized Significance Thresholds (LSTs). LSTs were devised in response to concern regarding exposure of individuals to criteria pollutants in local communities. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), project size, and distance to the sensitive receptor. However, LSTs only apply to emissions within a fixed stationary location, including idling emissions during both project construction and operation. LSTs have been developed for NO_X, CO, PM_{10} and $PM_{2.5}$. LSTs are not applicable to mobile sources such as cars on a roadway (SCAQMD, June 2003). As such, LSTs for operational emissions do not apply to onsite development since the majority of emissions would be generated by cars on roadways.

LSTs have been developed for emissions within areas up to five acres in size, with air pollutant modeling recommended for activity within larger areas. The SCAQMD provides lookup tables for project sites that measure one, two, or five acres. The proposed project involves approximately 0.8 acres of on-site construction. SCAQMD's *Sample Construction Scenarios for Projects Less than 5 Acres in Size* contains methodology for determining the thresholds for projects that are not exactly 1, 2, or 5 acres in size. This methodology was implemented to determine the thresholds for the proposed project. The project site is located in Source Receptor Area 5 (SRA-5) which is designated by the SCAQMD as Southeast LA County and includes West Whittier-Los Nietos. LSTs for construction on a 0.8 acre site in SRA-5 are shown in Table 3. LSTs are provided for receptors at a distance of 82 to 1,640 feet from the project site boundary. The sensitive receptors closest to the project site are the residences approximately 75 feet east of the site (across Duchess Drive). According to the SCAQMD's publication *Final Localized Significant (LST) Thresholds Methodology*, projects with boundaries located closer than 82 feet to the nearest receptor should use the LSTs for receptors located at 82 feet. In addition, the use of LSTs is voluntary, to be implemented at the discretion of local agencies.

Table 3
SCAQMD LSTs for Construction

Pollutant	Allowable emissions from a 0.8-acre site in SRA-5 for a receptor 82 feet away
Gradual conversion of NO_X to NO_2	73
CO	513
PM_{10}	3
$PM_{2.5}$	5

Source: AQMD Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2, October 2009. Accessed January, 2015.

The California Emissions Estimator Model (CalEEMod) software version 2013.2.2 was used to perform construction and long-term operational emissions estimates (refer to Appendix A). When project specific information was not available, default assumptions were used to calculate construction phase, vehicle trips, area, energy, and mobile source emissions associated with the project.

a) Generally, a project would conflict with or potentially obstruct implementation of an air quality plan if it would contribute to population growth in excess of that forecasted in the air quality management plan. The proposed project would involve construction of a library, which would not generate any population growth. Consequently, the project would not contribute to an exceedance of the area's projected population growth forecast. **No impact would occur.**

b, c) The proposed project would generate temporary construction emissions and long-term operational emissions.

Construction Emissions

Project construction would generate temporary air pollutant emissions. These impacts are associated with fugitive dust (PM_{10} and $PM_{2.5}$) and exhaust emissions from heavy construction vehicles, in addition to ROG that would be released during the drying phase upon application of architectural coatings.

Emissions associated with the proposed project were estimated using CalEEMod version 2013.2.2. Complete CalEEMod results and assumptions can be viewed in Appendix A.

Grading, excavation, hauling, and site preparation would involve the largest use of heavy equipment and generation of fugitive dust. The project site is generally level and construction would be on-grade; therefore, no excavation beyond typical utility trenching and re-compaction would be required. Cut and fill would be minimal, and are anticipated to be balanced on the project site. For the purposes of modeling, it was assumed that the project would comply with SCAQMD Rule 403, which identifies measures to reduce fugitive dust and is required to be

implemented at all construction sites located within the Basin. Therefore, the following conditions would be required to reduce fugitive dust in compliance with SCAQMD Rule 403 and were included in CalEEMod for site preparation and grading phases of construction.

1. ***Minimization of Disturbance.*** *Construction contractors should minimize the area disturbed by clearing, grading, earth moving, or excavation operations to prevent excessive dust generation.*

2. ***Soil Treatment.*** *Construction contractors should treat all graded and excavated material, exposed soil areas, and active portions of the construction site, including unpaved on-site roadways to minimize fugitive dust. Treatment shall include, but not necessarily be limited to, periodic watering, application of environmentally safe soil stabilization materials, and/or roll compaction as appropriate. Watering shall occur as necessary, and at least twice daily, preferably in the late morning and after work is completed for the day.*

3. ***Soil Stabilization.*** *Construction contractors should monitor all graded and/or excavated inactive areas of the construction site daily for dust stabilization. Soil stabilization methods, such as water and roll compaction, and environmentally safe dust control materials, shall be applied to portions of the construction site that are inactive for over four days. If no further grading or excavation operations are planned for the area, the area shall be periodically treated with environmentally safe dust suppressants to prevent excessive fugitive dust.*

4. ***No Grading During High Winds.*** *Construction contractors should stop all clearing, grading, earth moving, and excavation operations during periods of high winds (20 miles per hour or greater, as measured continuously over a one-hour period).*

5. ***Street Sweeping.*** *Construction contractors should sweep all on-site driveways and adjacent streets and roads at least once per day, preferably at the end of the day, if visible soil material is carried over to adjacent streets and roads.*

It was also assumed that the proposed project would comply with SCAQMD Rule 1113 regarding the use of low-volatile organic compound (VOC) architectural coatings. Construction was estimated to occur over approximately six months between January 2016 and July 2016.

Table 4 summarizes the estimated maximum daily emissions of pollutants during construction. As shown in Table 4, neither the SCAQMD thresholds nor the LST thresholds would be exceeded. Therefore, **impacts would be less than significant.**

Table 4
Estimated Construction Maximum Daily Air Pollutant Emissions

	Maximum Daily Emissions (lbs/day)				
	ROG	**NO_x**	**CO**	**PM_{10}**	**$PM_{2.5}$**
Maximum Daily Emissions	**34.6**	**14.0**	**9.4**	**1.7**	**1.2**
SCAQMD Thresholds	*75*	*100*	*550*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**
Maximum Daily On-Site Emissions	**34.6**	**14.0**	**8.7**	**1.1**	**1.0**
Local Significance Thresholds (LSTs)	*N/A*	*73*	*513*	*3*	*5*
Threshold Exceeded?	**n/a**	**No**	**No**	**No**	**No**

Source: See CalEEMod worksheets in Appendix A.
Note: LST's only include on-site emissions. LSTs for a 0.8-acre site in SRA-5, see Table 3.

Long-Term Emissions

Long-term emissions associated with project operation, as shown in Table 5, would include emissions from vehicle trips (mobile sources), natural gas and electricity use (energy sources), and landscape maintenance equipment, consumer products and architectural coating associated with on-site development (area sources).

Emissions would not exceed SCAQMD thresholds for any criteria pollutant. Consequently, the impact of the proposed project's operational emissions on regional air quality under thresholds b), c), and d), and on sensitive receptors, **would be less than significant.**

Table 5
Estimated Project Operational Emissions

Sources	Estimated Emissions (lbs/day)					
	ROG	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Area	0.4	4.0E-5	0.004	1.0E-5	1.0E-5	0
Energy	0.004	0.04	0.03	0.003	0.003	2.1E-4
Mobile	1.3	3.3	13.1	2.2	0.6	0.03
Total Emissions (lbs/day)	**1.8**	**3.3**	**13.1**	**2.2**	**0.6**	**0.03**
SCAQMD Thresholds	*55*	*55*	*550*	*150*	*55*	*150*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: See CalEEMod in Appendix A.
Note: numbers may not add up due to rounding.

e) The proposed library would not generate objectionable odors. Libraries are not identified on Figure 5-5, *Land Uses Associated with Odor Complaints,* of the 1993 SCAQMD CEQA Air Quality Handbook. Therefore, the proposed project would not generate objectionable odors affecting a substantial number of people. **No impact** would occur.

	Potentially Significant Impact	**Potentially Significant Unless Mitigation Incorporated**	**Less than Significant Impact**	**No Impact**
IV. BIOLOGICAL RESOURCES -- Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife (CDFW) or U.S. Fish and Wildlife Service (USFWS)?	☐	☐	☐	☒
b) Have a substantial adverse effect on any sensitive natural communities (e.g., riparian habitat, coastal sage scrub, oak woodlands, non-jurisdictional wetlands) identified in local or regional plans, policies, regulations or by CDFW or USFWS?	☐	☐	☐	☒

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES -- Would the project:				
c) Have a substantial adverse effect on federally or state protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, and drainages) or waters of the United States, as defined by § 404 of the federal Clean Water Act or California Fish & Game code § 1600, et seq. through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Convert oak woodlands (as defined by the state, oak woodlands are oak stands with greater than 10% canopy cover with oaks at least 5 inch in diameter measured at 4.5 feet above mean natural grade) or otherwise contain oak or other unique native trees (junipers, Joshuas, southern California black walnut, etc.)?	☐	☐	☐	☒
f) Conflict with any local policies or ordinances protecting biological resources, including Wildflower Reserve Areas (L.A. County Code, Title 12, Ch. 12.36), the Los Angeles County Oak Tree Ordinance (L.A. County Code, Title 22, Ch. 22.56, Part 16), the Significant Ecological Areas (SEAs) (L.A. County Code, Title 22, § 22.56.215), and Sensitive Environmental Resource Areas (SERAs) (L.A. County Code, Title 22, Ch. 22.44, Part 6)?	☐	☐	☐	☒
g) Conflict with the provisions of an adopted state, regional, or local habitat conservation plan?	☐	☐	☐	☒

Biological resources are identified and protected through various federal, state, regional, and local laws and ordinances. The federal Endangered Species Act and the California Endangered Species Act (CESA) state that animals and plants that are threatened with extinction or are in a significant decline will be protected and preserved. The State Department of Fish and Wildlife

created the California Natural Diversity Database (CNDDB), which is a program that inventories the status and locations of rare plants and animals in California.

Section 404 of the Clean Water Act defines wetlands as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

The County's primary mechanism to conserve biological diversity is an identification tool and planning overlay called Significant Ecological Areas (SEA). SEAs are ecologically important land and water systems that are valuable as plant and/or animal communities, often integral to the preservation of threatened or endangered species, and conservation of biological diversity in the County. These areas also include nearly all of the wildlife corridors in the County, as well as oak woodlands and other unique and/or native trees.

a-c) The project site consists of a grass sports field on the corner of Slauson Avenue and Duchess Drive. Species listed under the federal Endangered Species Act or California Special Concern Species are not expected to occur on or in proximity to the site, as the project site is located in a developed area, has been previously graded and disturbed, and does not provide suitable habitat. Therefore, the proposed project would not have a substantial adverse effect on any species identified as a candidate, sensitive, or special-status species in local or regional plans or by the California Department of Fish and Wildlife (CDFW) or U.S. Fish and Wildlife Service (USFWS). No water resources are present on site and no natural or artificial surface water exists on the project site (USFWS Wetlands Mapper, 2015; National Wild & Scenic Rivers, 2015). The project would not adversely affect any watercourse or any unique natural features. Moreover, no endangered species are known to occur on the project site and no endangered species were observed during the site visit (Rincon Consultants, December 2014). Due to the previously disturbed nature of the site, and the fact that the project site lacks significant native vegetation that would provide habitat for any unique, rare, or endangered plant or animal species, **no impact** would occur.

d) The project site is not near any wildlife movement corridor. The project would not involve any construction activities or physical development that would interfere substantially with the movement of any native resident or migratory fish, wildlife corridors or impede the use of native wildlife nursery sites. Therefore, **no impact** would occur.

e, f, g) The project site is not included in any Habitat Conservation Plans, Natural Community Conservation Plans, Wildflower Reserve Areas, or Significant Ecological Areas (Los Angeles County, Department of Regional Planning, GIS-NET3; Los Angeles County GIS Data Portal, 2013). In addition, the project site is located on a grass sports field and does not contain oak woodlands, oak trees, or any other native trees. The project would not involve any construction activities or physical development that would conflict with any local policies or ordinances protecting biological resources or an adopted conservation plan. Therefore, **no impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
V. CULTURAL RESOURES-- Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines §15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines §15064.5?	☐	☒	☐	☐
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature, or contain rock formations indicating potential paleontological resources?	☐	☒	☐	☐
d) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

a) The proposed project would construct a library and associated parking within an area currently vacant sports field. The proposed project would not modify any existing buildings during construction or operation. Thus, **no impact** to historic resources would occur.

b, c) No archaeological or paleontological resources are known to be present on-site or in the site vicinity. The likelihood of encountering intact cultural resources is low given that the site has been previously disturbed. However, the proposed project would require ground disturbance that would have the potential to disturb previously unrecorded archaeological or paleontological resources. Impacts would be **potentially significant unless mitigation is incorporated**. In the unlikely event that archeological or paleontological resources are discovered during project construction, Mitigation Measures CR-1 would apply.

CR-1 **Archaeological and Paleontological Resources.** If potentially significant subsurface prehistoric or historic archaeological or paleontological resources are encountered during construction and/or earthmoving activities, the evaluation of any such resources shall proceed in accordance with the criteria outlined in Section 106 of the National Historic Preservation Act (1966, as amended), in accordance with CEQA guidelines (1970, as amended), and in accordance with the County of Los Angeles General Plan. Specifically, all work must be halted in the immediate vicinity of the cultural resource found until a qualified archaeologist can assess the significance of the resource.

d) The project site is a grass sports field. There are no known human remains on-site and the presence of such remains is unlikely. However, ground disturbance would be required to construct

the proposed project. If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the Los Angeles County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission. **Compliance with applicable laws and regulations during construction of the proposed project would reduce the potential impact to less than significant and no mitigation would be required.**

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
VI. ENERGY-- Would the project:				
a) Conflict with Los Angeles County Green Building Standards Code (L.A. County Code Title 31)?	☐	☐	☒	☐
b) Involve the inefficient use of energy resources (see Appendix F of the CEQA Guidelines)?	☐	☐	☒	☐

a) The purpose of the Los Angeles County Green Building Standards Code (L.A. County Code Title 31) is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact, or positive environmental impact, and encouraging sustainable construction practices in the following categories: planning and design, energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and environmental air quality. As required of all development in the County, the proposed project would conform to applicable County of Los Angeles Title 31 Green Building Code standards. The proposed project would have a gross floor area of less than 25,000 square feet and would not be required to comply with the mandatory measures outlined in Section A5.601.2.4 Tier 1 of Title 31. However, the proposed project would be required per County of Los Angeles Ordinance No. 2008-0065, Green Building, to be constructed to County Green Building Standards. Therefore, implementation of the proposed project would not conflict with Los Angeles County Green Building Standards Code (L.A. County Code Title 31) and impacts would be **less than significant.**

b) As required per County of Los Angeles Ordinance No. 2008-0065 Green Building, the project must be constructed to County Green Building Standards, which would result in a more energy efficient building as compared to constructing a new library without these energy saving standards. Impacts related to the use of energy resources would be **less than significant**.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault trace? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction and lateral spreading?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of onsite wastewater treatment systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Conflict with the Hillside Management Area Ordinance (L.A. County Code, Title 22, § 22.56.215) or hillside design standards in the County General Plan Conservation and Open Space Element?	☐	☐	☐	☒

a.i and ii) No Alquist-Priolo Special Studies Zones exist on site, so the probability of seismic surface rupture is considered low. In addition, the site has not been designated as a zone of required investigation for earthquake–induced landslides (California Department of Conservation, 2014). Similar to all of Southern California, active and/or potentially active faults

in the region could generate strong ground shaking on the project site. The West-Whittier-Los Nietos area could experience shaking from faults in the area, including the Whittier Fault or the San Andreas Fault. Therefore, the project would be required to comply with applicable provisions of the most recently adopted version of the California Building Code (CBC) and applicable County building regulations. Adherence to these regulations would reduce seismic-related impacts to a **less than significant** level.

a.iii) Liquefaction is a condition that occurs when unconsolidated, saturated soils change to a near-liquid state during groundshaking. The project site is located within a potential liquefaction zone as identified on the State Hazards Map (State of California, Seismic Hazard Zones, Whittier Quadrangle, 1999). The Seismic Hazards Mapping Act requires that projects in Seismic Hazard Zones undergo a site-specific investigation, performed by a state-licensed engineering geologist and/or civil engineers, to determine whether a significant hazard exists at the site and recommend measures to reduce the risk to an acceptable level, prior to issuance of a development permit. Recommendations may include, but are not limited to, compaction and modification of materials below the building's foundation. Compliance with applicable laws and regulations during construction of the proposed project would reduce the potential impact to **less than significant** and no mitigation would be required.

a.iv) The project site is generally flat. The site has not been designated as a zone of required investigation for earthquake–induced landslides (State of California, Seismic Hazard Zones, Whittier Quadrangle, 1999). **No impact** would occur.

b) Loose soils create conditions that can lead to erosion. The potential for erosion generally increases after soil has been disturbed by clearing and grading. As discussed in Section IV, *Air Quality*, dust control measures would be implemented during construction as required by the SCAQMD Rule 403 to minimize fugitive dust emissions. Measures to minimize fugitive dust emissions include watering exposed surfaces and covering soil stockpiles. These measures are also effective for reducing soil erosion.

The County of Los Angeles is subject to the National Pollution Discharge Elimination System (NPDES) requirements mandated by the Los Angeles Regional Water Quality Control Board (LARWQCB). If the proposed project includes a parking lot over 5,000 square feet in size or with more than 25 parking spaces, it would be required to have a Standard Urban Stormwater Mitigation Plan (SUSMP) in place after construction. The SUSMP would include BMPs designed to reduce on-site erosion from vegetated areas on the site.

Construction activity for the proposed project would be required to comply with County of Los Angeles Municipal Code Section 12.80. This Section requires that all BMPs required as a condition of any permit for construction activity granted pursuant to Title 26 of the code be maintained in full force and effect during the term of the project, unless otherwise authorized by the director (Ord. 98-0021 § 1 (part), 1998). Applicable BMPs, such as the following, would reduce storm water runoff containing sediment, construction materials or other pollutants from the construction site:

- *Use structural controls such as sediment barriers, plastic sheeting, detention ponds, filters, berms, and similar controls to minimize the escape of sediment and other pollutants from the site.*
- *Locate excavated soil on the site in a manner that minimizes the amount of sediment running onto the street, drainage facilities or adjacent properties. Berm soil piles or cover with plastic or similar materials until the soil is either used or removed from the site.*
- *Prevent washing of construction or other vehicles on the construction site to prevent run off the construction site and enter the municipal storm water system.*
- *Situate trash receptacles at convenient locations on the construction site and maintain them in such a manner that trash and litter does not accumulate on the site nor migrate off site.*
- *Control erosion from slopes and channels through the effective combination of best management practices.*

The proposed project would be required to comply with the County Municipal Codes, which would reduce impacts to a **less than significant** level.

c, d) The project site is not located on a geologic unit or soil that is or would become unstable as a result of the project, potentially resulting in on- or off-site landslide, lateral spreading, subsidence, or collapse. Proper site investigation, soil testing, foundation design, and enforcement of construction grading practices, as defined by the County Building Code, would occur prior to construction of the proposed project and would reduce potential impacts (Los Angeles County, 1990). Impacts would be **less than significant**.

e) The project would generate wastewater, but would be connected to the existing sewer and wastewater disposal system. Therefore, **no impact** would occur.

f) The Los Angeles County Hillside Management Area Ordinance (L.A. County Code, Title 22, § 22.56.215) requires a conditional use permit in urban hillside management areas when properties contain any area with a natural slope of 25% or more and are proposed to be developed with residential uses at a density exceeding what is allowed in an adopted plan. The project site is flat and does not include hillsides with natural slopes greater than 25%. Therefore, **no impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS - Would the project:				
a) Generate greenhouse gas (GHGs) emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Project construction and operation would generate greenhouse gas (GHG) emissions primarily through the combustion of fossil fuels or other emissions of GHGs from vehicle trips, as well as building heating and cooling; thus, potentially contributing to cumulative impacts related to global climate change. The following summarizes global climate change, GHG emissions, and the regulatory framework related to climate change.

Local Regulations and CEQA Requirements

Pursuant to the requirements of SB 97, the Resources Agency adopted amendments to the *CEQA Guidelines* for the feasible mitigation of GHG emissions and analysis of the effects of GHG emissions. The adopted *CEQA Guidelines* provide regulatory guidance on the analysis and mitigation of GHG emissions in CEQA documents, while giving lead agencies the discretion to set quantitative or qualitative thresholds for the assessment and mitigation of GHGs and climate change impacts. To date, the Bay Area Air Quality Management District (BAAQMD), the South Coast Air Quality Management District (SCAQMD), and the San Joaquin Air Pollution Control District (SJVAPCD) have adopted significance thresholds for GHGs. The SCAQMD threshold, which was adopted in December 2008, considers emissions of over 10,000 metric tons carbon dioxide equivalent (CDE)/year to be significant. However, the SCAQMD's threshold applies only to stationary sources and is intended to apply only when the SCAQMD is the CEQA lead agency. Although not formally adopted, the SCAQMD has a recommended quantitative threshold for all land use types of 3,000 metric tons CDE/year (SCAQMD, "Proposed Tier 3 Quantitative Thresholds – Option 1", September 2010).

The County of Los Angeles released its Community Climate Action Plan 2020 (CCAP) in July 2014. The Community Climate Action Plan 2020 set the County's GHG emissions reduction target to at least 11% below 2010 levels by 2020. The majority of the CCAP's actions to reduce emissions are voluntary, incentive-based programs. These include incentivizing solar installations and energy efficiency in new development and encouraging use of electric construction equipment and idling limits for heavy-duty construction equipment, where feasible. The CCAP does not include GHG emissions thresholds for development. Because no GHG emissions thresholds have been adopted in the County of Los Angeles, the proposed project is evaluated based on the SCAQMD's recommended/preferred option threshold for all land use types of 3,000 metric tons CDE per year (SCAQMD, "Proposed Tier 3 Quantitative Thresholds – Option 1", September 2010).

Methodology

This analysis is based on the methods recommended by the California Air Pollution Control Officers Association [CAPCOA] (January 2008) *CEQA and Climate Change* white paper. The analysis focuses on CO_2, N_2O, and CH_4 as these are the GHG emissions that on-site development would generate in the largest quantities. Fluorinated gases, such as HFCs, PFCs, and SF_6, were also considered. However, because the proposed project is not comprised of industrial uses, the quantity of fluorinated gases would not be significant because fluorinated gases are primarily associated with industrial processes. Calculations were based on the methods discussed in the CAPCOA white paper (January 2008) and included the use of the California Climate Action Registry General Reporting Protocol (January 2009).

Construction Emissions
Although construction activity is addressed in this analysis, CAPCOA does not discuss whether any of the suggested threshold approaches (as discussed below in *GHG Cumulative Significance*) adequately address impacts from temporary construction activity. As stated in the *CEQA and Climate Change* white paper, "more study is needed to make this assessment or to develop separate thresholds for construction activity" (CAPCOA, 2008). Nevertheless, air districts such as the SCAQMD (2011) have suggested amortizing construction-related emissions over a 30-year period in conjunction with the proposed project's operational emissions.

Construction of the proposed project would generate temporary GHG emissions primarily from construction equipment operation and truck trips. For this analysis, it was assumed that construction would commence in June 2015 and would be completed in September 2016. Emissions associated with the construction period were estimated using the California Emissions Estimator Model (CalEEMod), based on the projected maximum amount of equipment that would be used on-site at one time. Complete CalEEMod input assumptions and results can be viewed in Appendix B.

Indirect Emissions
Operational emissions associated with energy use (electricity and natural gas use) were estimated using the CalEEMod model. The emission values on which CalEEMod is based include the California Energy Commission (CEC) sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies. CalEEMod provides operational emissions of CO_2, N_2O and CH_4. This methodology is considered reasonable and reliable for use, as it has been subjected to peer review by numerous public and private stakeholders, and in particular by the CEC. It is also recommended by CAPCOA (January 2008).

Emissions associated with area sources including consumer products, landscape maintenance, and architectural coating were calculated in CalEEMod and utilize standard emission rates from California ARB, USEPA, and SCAQMD supplied emission factor values (CalEEMod User Guide, 2011).

Emissions from waste generation were also calculated in CalEEMod and are based on the IPCC's methods for quantifying GHG emissions from solid waste using the degradable organic content of waste (CalEEMod User Guide, 2011). Waste disposal rates by land use and overall composition of municipal solid waste in California were primarily based on data provided by the California Department of Resources Recycling and Recovery (CalRecycle).

Emissions from water and wastewater calculated in CalEEMod were based on the default electricity intensity is from the CEC's 2006 Refining Estimates of Water-Related Energy Use in California using the average values for Northern and Southern California.

Direct Emissions from Mobile Combustion
Emissions of CO_2 and CH_4 from transportation sources for the project were quantified using CalEEMod. Because CalEEMod does not calculate N_2O emissions from mobile sources, N_2O emissions were quantified using the California Climate Action Registry General Reporting Protocol (January 2009) direct emissions factors for mobile combustion (see Appendix A). Emission rates for N_2O emissions were based on the vehicle mix output generated by CalEEMod and the emission factors were found in the California Climate Action Registry General Reporting Protocol.

One of the limitations to a quantitative analysis is that emission models such as CalEEMod, evaluate aggregate emissions and do not demonstrate what proportion are "new" emissions, specifically attributable to the project in question. For most projects, the main contribution of GHG emissions is from motor vehicles and the total vehicle miles traveled (VMT), but the quantity of these emissions appropriately characterized as "new" is uncertain. Traffic associated with a project may be relocated trips, and consequently, may result in either higher or lower net VMT. For the proposed project, it is likely that some of the GHG emissions associated with traffic and energy demand would be truly "new" emissions; however, most of the trips would be generated by staff and vendors already working in the area. Thus, although GHG emissions are associated with the project, it is not possible to discern how much diversion is occurring or what fraction of those emissions represents global increases. In the absence of information regarding the different types of trips (i.e., existing versus new), the VMT estimate generated by CalEEMod is used to provide a conservative estimate of the proposed project's maximum annual emissions.

a) GHG emissions associated with construction emissions and operational emissions are discussed below.

Construction Emissions

Based on CalEEMod results, construction activity for the project would generate an estimated 72.1 metric tons of carbon dioxide equivalent (CDE) units (as shown in Table 6). Amortized over a 30-year period (the assumed life of the project), construction of the proposed project would generate about 2.4 metric tons of CDE per year.

Table 6
Estimated Construction
Emissions of Greenhouse Gases

	Emissions (metric tons CDE)
Total Emissions	72.1 metric tons
Amortized over 30 years	2.4 metric tons per year

See Appendix A for CalEEMod Results.

Operational Indirect and Stationary Direct Emissions

Operational Emissions include area source, energy use, solid waste, water use, and transportation emissions. Table 7 combines the construction, operational and mobile GHG emissions associated with the proposed project. For the proposed project, the combined annual GHG emissions would total approximately 447 metric tons of CDE. The total amount of GHG emissions would be lower than the threshold of 3,000 metric tons of CDE per year. Impacts related to GHG emissions would b**e less than significant.**

Table 7
Combined Annual Emissions
of Greenhouse Gases

Emission Source	Annual Emissions CDE
Construction	2.4 metric tons
Operational	
Area	0.001 metric tons
Energy	34.5 metric tons
Solid Waste	2.9 metric tons
Water	2.2 metric tons
Mobile	
CO_2 and CH_4	385.3 metric tons
N_2O	19.5 metric tons
Total Emissions from the Proposed Project	**446.9 metric tons**
SCAQMD Proposed Tier 3 Threshold	*3,000 metric tons*
Threshold Exceeded?	**No**

Sources: See Appendix A for calculations and for GHG emission factor assumptions.

b) Senate Bill 375, signed in August 2008, requires the inclusion of sustainable communities' strategies in regional transportation plans for the purpose of reducing GHG emissions. In April 2012, the Southern California Association of Governments (SCAG) adopted the 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). SCAG's RTP/SCS includes a commitment to reduce emissions from transportation sources by promoting compact and infill development and promoting alternative modes of transportation. A goal of the SCS is to "promote the development of better places to live and work through measures that encourage more compact development, varied housing options, bike and pedestrian improvements and efficient transportation infrastructure."

The County of Los Angeles CCAP, described above, also includes a goal of promoting sustainability in land use design and density by encouraging infill development. The proposed project would involve infill development that would also be located within walking distance to public transportation provided by the Los Angeles County Metropolitan Transportation Authority (Metro) on Slauson Avenue, thereby reducing vehicle trips. Therefore, it would be consistent with the goals of CCAP and RTP/SCS.

The proposed project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing emissions of GHGs and would be consistent with the objectives of the County of Los Angeles CCAP, RTP/SCS, AB 32, SB 97, and SB 375. **Impacts would be less than significant**.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS - Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, storage, production, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of sensitive land uses?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
h) Expose people or structures to a significant risk of loss, injury, or death involving fires, Because the project is located:				
i) within a Very High Fire Hazard Severity Zones (Zone 4)?	☐	☐	☐	☒
ii) within a high fire hazard area with inadequate access?				

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS - Would the project:				
iii) within an area with inadequate water and pressure to meet fire flow standards?	☐	☐	☐	☒
iv) within proximity to land uses that have the potential for dangerous fire hazard?	☐	☐	☐	☒
i) Does the proposed use constitute a potentially dangerous fire hazard?	☐	☐	☐	☒

a, b, d) The proposed project would involve construction, but would not involve the transport, use, or disposal of hazardous materials. According to the EnviroStor database maintained by the Department of Toxic Substances Control, the project site is not included in a list of hazardous material sites and is not on the Cortese List (EnviroStor and Cortese, 2014). However, in approximately 1953 the property was converted from an agricultural use to single-family residential use along the northern and eastern boundaries of the project site. By approximately 1953, the single-family residences were no longer located on the project site and the has been undeveloped or a grass field in the northeastern portion of the Los Nietos Middle School property since then.

Tetra Tech, Inc. completed a Phase I Environmental Site Assessment (ESA) for the project site, dated October 30, 2014. No recognized environmental conditions (including controlled recognized environmental conditions), historical recognized environmental conditions, or potential environmental concerns were identified at the project site. Historical agricultural activities at the project site may have involved the application of pesticides and herbicides, which potentially could contain a number of hazardous substances. Based on the subsequent development of portions of the project site with single-family residences, as well as presumed grading of the project site, it is unlikely that elevated concentrations of pesticide- or herbicide-related hazardous substances would remain in the project site soils (Tetra Tech, Inc., 2014). Historical agricultural use of the Site is considered to be a *de minimis*, or negligible, condition to the project site. Nonetheless, the Phase I ESA recommends implementing dust suppression during construction activities and sampling and analyzing near-surface soils for herbicide- and pesticide-related hazardous substances prior to removal from the project site for any purpose. As described in Section I, *Air Quality*, construction of the proposed project would be required to suppress fugitive dust in order to comply with SCAQMD Rule 403. In addition, cut and fill for the proposed project would be minimal, and are anticipated to be balanced on the project site. Therefore, it is unlikely that construction of the proposed project would require soil export. Impacts would be **less than significant**.

c) The project site is located on a school property. However, as discussed above, there are no hazardous conditions that would pose a risk to students; therefore, impacts would be **less than significant**.

e, f) The project site is not within two miles of a public or private airport (Los Angeles County Airport Land Use Commission, Los Angeles County Airport Land Use Plan, Revised December 1, 2004); therefore, the proposed project would not result in a safety hazard for people on the project site. **No impact** would occur.

g) The proposed project would be located on an existing grass sports field in an urban area adjacent to Slauson Avenue and Duchess Drive. The proposed library and associated parking would be required to comply with all applicable County codes and regulations pertaining to emergency response and evacuation plans maintained by the police and fire department, as well as fire protection and security. Therefore, impacts would be **less than significant**.

h (i-iv)) The project site is surrounded by residential, commercial, and institutional uses. The proposed project is a library and would comply with applicable County of Los Angeles Title 32 Fire Code standards. The proposed project would be required to have adequate water and pressure to meet fire flow standards. In addition, the project would not involve construction of residential uses (County of Los Angeles, 2014). The project is not located in a wildland fire hazard area (CA Fire Hazard Severity Zone Map, LA County, Accessed 2015). **No impact** would occur.

i) The proposed project is a library and would comply with applicable County of Los Angeles Title 32 Fire Code standards. As a library, the proposed use does not constitute a potentially dangerous fire hazard. **No impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY– Would the project:				
a) Violate any water quality standards or waste discharge requirements?	☐	☐	☒	☐
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering or the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	☐	☐	☒	☐

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY– Would the project:				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	☐	☐	☒	☐
d) Substantially alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	☐	☐	☒	☐
e) Add water features or create conditions in which standing water can accumulate that could increase habitat for mosquitoes and other vectors that transmit diseases such as the West Nile virus and result in increased pesticide use?	☐	☐	☒	☐
f) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐
g) Generate construction or post-construction runoff that would violate applicable stormwater NPDES permits or otherwise significantly affect surface water or groundwater quality?	☐	☐	☒	☐
h) Conflict with the Los Angeles County Low Impact Development Ordinance (L.A. County Code, Title 12, Ch. 12.84 and Title 22, Ch. 22.52)?	☐	☐	☒	☐
i) Result in point or nonpoint source pollutant discharges into State Water Resources Control Board-designated Areas of Special Biological Significance?	☐	☐	☒	☐
j) Use onsite wastewater treatment systems in areas with known geological limitations (e.g. high groundwater) or in close proximity to surface water (including, but not limited to, streams, lakes, and drainage course)?	☐	☐	☐	☒

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY– Would the project:				
k) Otherwise substantially degrade water quality?	☐	☐	☒	☐
l) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map, or within a floodway or floodplain?	☐	☐	☐	☒
m) Place structures, which would impede or redirect flood flows, within a 100-year flood hazard area, floodway, or floodplain?	☐	☐	☐	☒
n) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	☐	☐	☐	☒
o) Place structures in areas subject to inundation by seiche, tsunami, or mudflow?	☐	☐	☐	☒

a, c, d, f, g, k) As discussed in VI. *Geology and Soils*, above, the project site is within the region covered by the Los Angeles County Municipal Storm Water NPDES Permit No. CAS004001 issued by the LARWQCB. This permit governs non-point source discharges associated with storm water runoff. If the proposed project includes a parking lot over 5,000 square feet in size or with more than 25 parking spaces, it would be required to have a SUSMP in place. In addition, the SUSMP requires the integration of post-construction BMPs into the site's overall drainage system, which would further reduce the potential for pollutants to enter the storm drain system. The SUSMP must be approved by the County prior to the issuance of a grading or building permit.

The Los Angeles County Flood Control District (LACFCD) does not permit any increase in receiving water peak flows as a result of the project development. The project would be required to comply with the Los Angeles County Areawide MS4 permit, which requires that the amount of runoff from the site must be the same before and after construction of a project. The installation of a storm drain system would be designed, installed, and maintained per County of Los Angeles Department of Public Works. Because the project would be required to include a site drainage system that complies with standards and provisions set forth by the County of Los Angeles, impacts related to water quality would be **less than significant**.

b) Regional water demand is primarily a function of population growth. The project would not increase the area population or, in turn, the demand for potable water. (Please refer to Section

XVI, *Utilities and Service Systems,* for further discussion of this impact.) The water demand associated with the proposed project would not be enough to substantially deplete groundwater supply, nor would it interfere with groundwater recharge. The project site is currently a grass field with no pavement. The proposed project would increase the amount of impervious surface on the project site; however, it would be required to comply with the Los Angeles County Areawide MS4 permit, which requires that the amount of runoff from the site must be the same before and after construction of the project. In addition, the project would require a SUSMP, which would include BMPs designed to retain and detain stormwater on-site, allowing for continued percolation and groundwater recharge. Consequently, the proposed project would not substantially alter groundwater recharge. Impacts associated with this issue would be **less than significant**.

e) The proposed project would not include water features and would not create conditions in which standing water could accumulate. Impacts would be **less than significant.**

h) The Los Angeles County Low Impact Development Ordinance (L.A. County Code, Title 12, Ch. 12.84 and Title 22, Ch. 22.52) requires that a project retain 100% of the Stormwater Quality Design Volume[1] on-site, through infiltration, evapotranspiration, rainfall harvest and use, or a combination. The proposed project would be required to comply with the Ordinance and include source control measures described in the County of Los Angeles Department of Public Works Low Impact Development Standards Manual (February 2014). Structural source control measures that the proposed project would be required to employ include storm drain messaging and signage, effective landscape irrigation practices, and building materials selection. Effective landscape irrigation practices include not allowing irrigation runoff from landscaped areas to drain directly to storm drain systems, minimizing the use of fertilizer and pesticides, designing the irrigation system to only water areas that need water, and more. Building materials selection includes selecting lumber, roofing, and fencing materials that would not potentially contribute pollutants of concern to stormwater runoff through leaching. Non-structural source control measures that the proposed project may employ include good housekeeping and employee training to optimize pollution prevention. **Impacts would be less than significant.**

i) The proposed project would be required to comply with the Los Angeles County Areawide MS4 permit, which requires that the amount of runoff from the site must be the same before and after construction of a project, and the Los Angeles County Low Impact Development Ordinance, which requires that a project retain 100% of the Stormwater Quality Design Volume on-site, through infiltration, evapotranspiration, rainfall harvest and/or use. Thus, the proposed project would not result in point or non-point source pollutant discharges into a State Water Resources Control Board-designated Area of Special Biological Significance. **Impacts would be less than significant**.

j) The proposed project would be required to connect to the existing sanitary sewer system. No on-site wastewater treatment systems would be required. **No impact would occur**.

[1] *"Stormwater Quality Design Volume" means the runoff generated by a water quality design storm event. "Water Quality Design Storm Event" means any of the volumetric or flow rate based design storm events for water quality Best Management Practices identified in the National Pollutant Discharge Elimination System Municipal Stormwater Permit for the County of Los Angeles.*

l-n) The project site is located in Zone X, which is an area outside of the 100-year flood zone (FEMA Panel No. 06037C1842F, 2008). The project would not involve any housing and would not involve construction of a structure that would impede flood flows. The site is not located within a potential inundation area for dam failure (Los Angeles County General Plan, Safety Element-Plate 6, 2015). Therefore, there is no potential for inundation at the site as a result of an earthquake-induced dam failure. **No impact** would occur.

o) A tsunami is a tidal wave produced by off-shore seismic activity; seiches are seismically-induced waves that occur in large bodies of water, such as lakes. According to the California Department of Conservation, the project site is not located within a tsunami hazard zone (2012). Additionally, because the project site is not in proximity to a large body of water, seiches are not a significant concern. Therefore, **no impact** related to these hazards would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XI. LAND USE AND PLANNING -- Would the proposal:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Be inconsistent with the applicable County plans for the subject property including, but not limited to, the General Plan, specific plans, local coastal plans, area plans, and community/neighborhood plans?	☐	☐	☐	☒
c) Be inconsistent with the County zoning ordinance as applicable to the subject property?	☐	☐	☐	☒
d) Conflict with Hillside Management criteria, Significant Ecological Areas conformance criteria, or other applicable land use criteria?	☐	☐	☐	☒

a) The project site is located on a fenced grass sports field. The proposed project would not create a physical barrier that would divide an established community. Therefore, **no impact** would occur.

b, c) The project site is predominately zoned Single-family Residential (R-1). Library services are subject to a Conditional Use Permit (CUP) in the R-1 zone (County of Los Angeles Municipal Code Section 22.20.100). The site is also zoned Residential/Agricultural (R-A). Library uses are also subject to a CUP in the R-A zone (County of Los Angeles Municipal Code Section 22.20.440). Therefore, assuming that CUPs are obtained, the project would be in compliance with the R-1 and R-A zoning designations. The project site has a general plan land use designation of Public and Semi-Public (P). The P designation allows for public and semi-public

facilities and community-serving uses. Therefore, the project would be consistent with the General Plan land use designation.

The project site is located adjacent to residential, commercial, and institutional uses. The proposed one-story library would be compatible with the surrounding uses. The project would benefit the surrounding residences and the surrounding commercial uses. **No impact** would occur.

d) The project site is not located within a Significant Ecological Area or an area that is subject to an adopted habitat conservation plan, natural community plan, or similar plan (Los Angeles County, Department of Regional Planning, GIS-NET3; Los Angeles County GIS Data Portal, 2013). Because the project site is generally flat, it would not conflict with the Hillside Management Area Ordinance (L.A. County Code, Title 22, § 22.56.215; refer to Section VII, *Geology and Soils*). **No impact would occur.**

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XII. MINERAL RESOURCES -- Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

a-b) The proposed project would involve the construction of a library on a vacant sports field in an urbanized area. The project would have **no impact** related to the loss of availability of a known mineral resource.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
a) Exposure of persons to, or generation of, noise levels in excess of standards established in the County General Plan or noise ordinance (Los Angeles County Code, Title 12, Chapter 12.08), or applicable standards of other agencies?	☐	☐	☒	☐

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) A substantial permanent increase in ambient noise levels above levels existing without the project, including noise from parking areas?	☐	☐	☒	☐
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project, including noise from amplified sound systems?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise?	☐	☐	☐	☒

Noise level (or volume) is generally measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound power levels to be consistent with that of human hearing response, which is most sensitive to frequencies around 4,000 Hertz (about the highest note on a piano) and less sensitive to low frequencies (below 100 Hertz).

Because of the logarithmic scale of the decibel unit, sound levels cannot be added or subtracted arithmetically. If a sound's physical intensity is doubled, the sound level increases by 3 dBA, regardless of the initial sound level. For example, 60 dBA plus 60 dBA equals 63 dBA. Where ambient noise levels are high in comparison to a new noise source, the change in noise level would be less than 3 dBA. For example, 70 dBA ambient noise levels are combined with a 60 dBA noise source the resulting noise level equals 70.4 dBA. Based on the logarithmic scale, a sound that is 10 dBA less than the ambient sound level has no effect on ambient noise. Because of the nature of the human ear, a sound must be about 10 dBA greater than the reference sound to be judged as twice as loud. In general, a 3 dBA change in community noise levels is noticeable, while 1-2 dBA changes generally are not perceived. Quiet suburban areas typically have noise levels in the range of 40-50 dBA, while arterial streets are in the 50-60+ dBA range.

Normal conversational levels are in the 60-65 dBA range, and ambient noise levels greater than 65 dBA can interrupt conversations.

The California Department of Health, Office of Noise Control's land use compatibility categories for community noise exposure are shown in Table 8. Under these guidelines, the maximum "normally acceptable" noise level for single family residential uses is 55-60 dBA Ldn or CNEL. Ldn is the time average of all A-weighted levels for a 24-hour period, with a 10 dB upward adjustment added to those noise levels occurring between 10:00 p.m. and 7:00 a.m. to account for the general increased sensitivity of people to nighttime noise levels. The Community Noise Equivalent Level (CNEL) is similar to the Ldn except that it adds 5 additional dB to evening noise levels (7:00 p.m. to 10:00 p.m.). A "normally acceptable" noise level means that the specified land use would be satisfactory based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

Table 8
Land Use Compatibility for Noise Environments

Land Use Category	Community Noise Exposure Level			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Low Density, Single-Family, Duplex, Mobile Homes	50-60	55-70	70-75	75+
Residential – Multiple Family	50-65	60-70	70-75	75+
Transient Lodging – Motel, Hotels	50-65	60-70	70-80	80+
Schools, Libraries Churches, Hospitals, Nursing Homes	50-65	60-70	70-80	80+
Auditoriums, Concert Halls, Amphitheaters	NA	50-70	65+	NA
Sports Arenas, Outdoor Spectator Sports	NA	50-75	70+	NA
Playgrounds, Neighborhood Parks	50-70	NA	67-75	73+
Golf Courses, Riding Stable, Water Recreation, Cemeteries	50-75	NA	70-80	80+
Office Buildings, Business Commercial and Professional	50-70	67 -77	75+	NA
Industrial, Manufacturing, Utilities, Agriculture	50-75	70-80	80+	NA

Source: Office of Noise Control, California Department of Health; City of Santa Paula Noise Element.
Notes: NA - Not Applicable
***Normally Acceptable** – Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements*
***Conditionally Acceptable** – New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.*
***Normally Unacceptable** – New construction or development should be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.*
***Clearly Unacceptable** – New construction or development should generally not be undertaken.*

a, c, d) The project site is surrounded by residential, commercial, and institutional uses. The main source of noise generated by operation of the project would be traffic. As described in Section XVII, *Transportation/Traffic*, the proposed project would generate an estimated 394 average daily trips (ADT), including approximately 7 AM peak hour trips and 51 PM peak hour (ITE, 2012). As described above, because of the logarithmic scale of the decibel unit, sound levels would have to double for there to be a 3 dBA change in ambient noise. In general, a 3 dBA change in community noise levels is noticeable, while 1-2 dBA changes generally are not perceived. The proposed project would not lead to a doubling of traffic on area roadways; therefore, the proposed project would not generate noise to substantially increase the existing ambient noise level. Impacts would be **less than significant**.

Project construction would generate temporary noise level increases. The County of Los Angeles noise ordinance would apply to construction of the project. The noise ordinance prohibits construction between 7:00 PM. and 7:00 AM during weekdays and prohibits construction on Sundays and holidays. Assuming compliance with these timing restrictions, impacts related to operational and construction noise would be **less than significant**.

The project site is within a relatively quiet residential area. Nevertheless, proposed library would be subject to traffic noise from Slauson Avenue. Windows and building materials would need to have sufficient sound insulation to achieve an acceptable interior level of 45 dBA CNEL or less.

b) With respect to ground vibration, the proposed project would involve construction activities such as site preparation, grading, building, and paving the parking lot. Each of these is anticipated to result in some vibration that may affect nearby residential sensitive receptors.

The vibration velocity level threshold of perception for humans is approximately 65 VdB (Federal Railroad Administration, 1998). A vibration velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels for many people (Federal Railroad Administration, 1998). Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or the slamming of doors. Typical outdoor sources of perceptible groundborne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. The range of interest is from approximately 50 VdB, which is the typical background vibration velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. The Federal Transit Administration (FTA) thresholds are 80 VdB at residences and buildings where people normally sleep (e.g., nearby residences and daycare facility) and 83 VdB at institutional buildings (e.g., schools and churches). These thresholds apply to conditions where there are an infrequent number of events per day[2].

Table 6 identifies various vibration velocity levels for the types of construction equipment that would operate at the project site during construction.

Based on the information presented in Table 9, vibration levels could temporarily and intermittently reach up to approximately 77 VdB at the residences located east of the project site

[2] *"Infrequent events" is defined by the Federal Railroad Administration as being fewer than 70 vibration events per day.*

(based on a distance of 75 feet to the nearest residential dwelling). Therefore, vibration levels could exceed the groundborne velocity threshold level of 80 vibration decibels (VdB) established by the Federal Railway Administration for residences where people normally sleep. However, as discussed above, construction activities would be prohibited between 7:00 PM. and 7:00 AM during weekdays and on Sundays and holidays. Therefore, construction would not occur during recognized sleep hours for residences. The vibration levels would not be anticipated to exceed 100 Vdb, which is the threshold where minor damage can occur in fragile buildings. As such, vibration effects would be **less than significant**.

Table 9
Vibration Source Levels for Construction Equipment

Equipment	Approximate VdB				
	25 Feet	50 Feet	60 Feet	75 Feet	100 Feet
Large Bulldozer	87	81	79	77	75
Loaded Trucks	86	80	78	76	74
Jackhammer	79	73	71	69	67
Small Bulldozer	58	52	50	48	46

Source: Federal Railroad Administration, 1998

e, f) The project site is not within two miles of a public or private airport (Los Angeles County Airport Land Use Commission, Los Angeles County Airport Land Use Plan, Revised December 1, 2004); therefore, the project would not expose site visitors to airport noise and **no impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XIV. POPULATION AND HOUSING — Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing housing, especially affordable housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XIV. POPULATION AND HOUSING — Would the project:				
d) Cumulatively exceed official regional or local population projections?	☐	☐	☐	☒

a, d) The proposed project would not substantially or cumulatively induce population growth because no residential units are proposed. The proposed project involves the construction of a library. The proposed project would serve the existing community and would not result in a substantial or cumulative population increase because the project would not involve residential uses. The project may indirectly induce population growth by creating new jobs during construction and during operation of the library; however, the construction jobs would be temporary. In addition, both construction and library operation jobs would be expected to draw from the local work force. Therefore, **no impact** would occur.

b, c) The area to be developed with the proposed library is a grass sports field with no residential uses. The project would not result in the displacement of housing or people. **No impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XV. PUBLIC SERVICES				
a) Would the project create capacity or service level problems, or result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i) Fire protection?	☐	☐	☒	☐
ii) Sheriff protection?	☐	☐	☒	☐
iii) Schools?	☐	☐	☐	☒
iv) Parks?	☐	☐	☐	☒
v) Libraries?	☐	☐	☐	☒
vi) Other public facilities?	☐	☐	☐	☒

a.i) The Los Angeles County Fire Department, Fire Station 25, would provide fire protection, paramedic and emergency medical technician services to the project site. Fire Station 25 is located at 9209 E. Slauson Boulevard in Pico Rivera, approximately 1.75 miles west of the project site. The proposed project would incrementally increase the demand for fire protection services. However, it is within the current service area of the County Fire Department. Assuming compliance with Fire Department requirements, the project would not adversely affect fire protection services, including response times, or create the need to construct new or expanded facilities. Impacts would be **less than significant.**

a, ii) The Los Angeles County Sheriff's Department provides police protection services in the project site vicinity. The closest Sheriff's Station is located at 6631 S. Passons Boulevard, Pico Rivera CA 90660, approximately 1.45 miles northwest of the project site. The proposed project may incrementally increase demand for police protection services. However, the site is within the existing service area of the Sheriff's Department and would not increase the number of residents in the area or create the need for new or expanded facilities. Impacts would be **less than significant.**

a.iii, iv, v, vi) The proposed project does not include residential development that would directly result in population increases or increased demand for schools, libraries, or other facilities. As explained in Section XIII, *Population and Housing*, the project in itself would not induce any additional population growth. In fact, the proposed library project would increase library services for the existing population. **No impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XVI. RECREATION --				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include neighborhood and regional parks or other recreational facilities or require the construction or expansion of such facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒
c) Would the project interfere with regional open space connectivity?	☐	☐	☐	☒

a, b) The proposed project would involve construction of an approximately 7,000 square foot library and associated parking. As described in Section XIV, *Population and Housing*, the proposed library would not substantially increase population growth. Therefore, the proposed project would not increase the use of existing neighborhood and regional parks such that substantial physical deterioration of the facility would occur or be accelerated. In addition, the

library would not include recreational facilities or the expansion of such facilities. **No impact** would occur.

c) The proposed project is surrounded by commercial and residential development. It is not adjacent or a part of a regional open space network and thus would not interfere with regional open space connectivity. **No impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XVII. TRANSPORTATION / TRAFFIC -- Would the project:				
a) Conflict with an applicable plan, ordinance or policy establishing a measure of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways, and freeways, pedestrian and bicycle paths, and mass transit?	☐	☐	☒	☐
b) Conflict with an applicable congestion management program (CMP), including, but not limited to, level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	☐	☐	☒	☐
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	☐	☐	☐	☒
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)?	☐	☐	☐	☒
e) Result in inadequate emergency access?	☐	☐	☐	☒
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	☐	☐	☐	☒

a, b) A trip generation analysis was conducted based on the rates found in ITE Trip Generation, 8th Edition. The proposed library is estimated to generate approximately 394 average daily trips (ADT), including approximately 7 AM peak hour trips and 51 PM peak hour (ITE, 2012). This

would incrementally increase traffic on roadways in the immediate project vicinity. The projected vehicle trips do not exceed the County of Los Angeles Public Works Department's 500 daily trip threshold for preparation of a traffic study. Impacts would be **less than significant.**

c) As discussed in Section VIII, *Hazards and Hazardous Materials*, given that the project site is not located within two miles of the nearest airport the project would not present any impediments to air traffic, and, therefore, would not affect air traffic patterns. **No impact** would occur.

d, e) The project site is adjacent to Slauson Avenue and Duchess Drive. The proposed project would be accessed via a driveway on Duchess Drive. None of the surrounding access roads or driveways feature hazardous designs such as sharp curves or dangerous intersections. The proposed development would abide by all applicable County codes and regulations pertaining to emergency and evacuation plans maintained by the police and fire department in the County of Los Angeles. Slauson Avenue and Duchess Drive are currently available for emergency access and would be available for access after completion of the proposed project. Additionally, the project would not block any existing streets or emergency response routes. Therefore, **no impact** would occur.

f) The proposed project would not result in changes to the public transportation system that would conflict with adopted policies plans or programs. Additionally, as described in Section XIII, *Population and Housing*, no significant population increase would result from the project that would increase the burden on public transportation. Therefore, **no impact** would occur.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XVIII.UTILITIES AND SERVICE SYSTEMS -- Would the project:				
a) Exceed wastewater treatment requirements of either the Los Angeles or Lahontan Regional Water Quality Control Boards?	☐	☐	☐	☒
b) Create water or wastewater system capacity problems, or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☐	☒
c) Create drainage system capacity problems, or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☐	☒

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XVIII.UTILITIES AND SERVICE SYSTEMS -- Would the project:				
d) Have sufficient reliable water supplies available to serve the project demands from existing entitlements and resources, considering existing and projected water demands from other land uses?	☐	☐	☒	☐
e) Create energy utility (electricity, natural gas, propane) system capacity problems, or result in the construction of new energy facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	☐	☐	☒	☐
g) Comply with federal, state, and local statutes and regulations related to solid waste?	☐	☐	☒	☐

a, b) Sewer service for the library would be provided by the Los Angeles County Sanitation District (LACSD) No. 18. Seventeen of the Sanitation Districts that provide sewerage services in the metropolitan Los Angeles area abide by the Joint Outfall Agreement that provides a regional, interconnected system of facilities or Joint Outfall System (JOS). The JOS includes the main Joint Water Pollution Control Plant (JWPCP) in Carson and six satellite water reclamation plants (WRPs), built near rivers to allow for the disposal of the treated water that is not reused. This system provides sewage treatment, reuse, and disposal for users at the treatment plants (LACSD, www.lacsd.org, accessed January, 2015).

Based on LACSD's average flow rate (100 gallons per day per 1,000 square feet) for libraries in District No. 18, the proposed library would generate an estimated 700 gallons of wastewater per day (LACSD, http://www.lacsd.org/civica/filebank/blobdload.asp?BlobID=2653, accessed January, 2015). The capacities of the facilities within the Joint Outfall System range from 0.2 to 400 million gallons per day (Sanitation Districts of Los Angeles County, 2015). Therefore, **no impact** would occur.

c) The project site is currently a grass sports field, which is generally a pervious surface. The proposed project would involve the construction of a library up to 7,000 square feet and associated parking area, thereby incrementally increasing stormwater generation over current conditions. However, any needed improvements or additions to the storm drain system would be made in conjunction with site development to accommodate runoff from the site. Also, the project would comply with local, state, and federal requirements pertaining to control of stormwater runoff, including National Pollution Discharge Elimination System (NPDES)

permits during construction and operation of the project. Furthermore, the proposed project would be required to comply with the Los Angeles County Areawide MS4 permit, which requires that the amount of runoff from the site must be the same before and after construction of a project, and the Los Angeles County Low Impact Development Ordinance, which requires that a project retain 100% of the Stormwater Quality Design Volume on-site, through infiltration, evapotranspiration, rainfall harvest and/or use. Thus, the proposed project would not increase runoff into the storm drain system. **No impact** would occur.

d) Water would be required during the construction phase and for landscape maintenance. As required per County of Los Angeles Ordinance No. 2008-0065 Green Building, the project is required to be constructed to County Green Building Standards, which would result in a more water efficient building as compared to constructing a new library without these water saving standards. County Green Building Standards require installation of a smart irrigation controller in landscaped areas and the use of drought-tolerant species. Impacts would be **less than significant**.

e) Southern California Edison (SCE) would provide electricity services to the project site. SCE provides 14 million people with electricity across a service territory of approximately 50,000 square miles (SCE website, N.D.). Southern California Gas Company (SoCalGas) would provide natural gas services to the project site. SoCalGas provides natural gas to 20.9 million people across a service territory of approximately 20,000 square miles (SoCalGas website, N.D.).

The proposed library project would not increase SCE or SoCalGas existing service population. The proposed project would not create energy utility system capacity problems, or result in the construction of new energy facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. As required per County of Los Angeles Ordinance No. 2008-0065 Green Building, the project is required to be constructed to County Green Building Standards, which would result in a more energy efficient building as compared to constructing a new library without these energy saving standards. **This would be a less than significant impact.**

f, g) The proposed project may incrementally increase on-site solid waste generation as compared to existing conditions. However, this incremental increase would not significantly affect area landfills because the library would implement existing recycling programs. LA County Code Section 20.87.040 requires the recycling or reuse of at least 50 percent of all construction and demolition debris, and any soil, rock, and gravel removed from the site. In addition, the project would be required to comply with federal, state, and local statutes and regulations related to solid waste. Impacts would be **less than significant.**

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less than Significant Impact	No Impact
XIX. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term goals?	☐	☐	☒	☐
c) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐
d) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

a) As discussed under Section IV, *Biological Resources*, the proposed project would have **no impact** on sensitive species or habitat. As discussed under Item V, *Cultural Resources*, impacts regarding subsurface cultural resources or remains would be **less than significant with implementation of Mitigation Measure CR-1.** Potential impacts to important examples of the major periods of California history or prehistory would be **less than significant**.

b) Mitigation measures have been recommended to minimize or avoid potentially significant adverse environmental impacts. Thus, the proposed project would achieve short-term environmental goals while avoiding long-term adverse environmental impacts. **Impacts would be less than significant**.

c) As presented in the discussion of environmental checklist Sections I through XVIII, the project would have no impact, a less than significant impact, or a less than significant impact after mitigation with respect to all environmental issues. Due to the limited scope of direct physical impacts to the environment associated with the proposed project, the impacts are project-specific in nature. Consequently, the project along with other planned and pending

development would result in a **less than significant cumulative impact** with respect to all environmental issues.

d) All potential environmental impacts of the project have been determined in this Initial Study to have no impact, a less than significant impact, or a less than significant with mitigation and would therefore also not cause substantial adverse effects on human beings, either directly or indirectly. Therefore, the project would have **a less than significant** impact with regard to direct or indirect substantial adverse effects on human beings.

REFERENCES

California Air Pollution Control Officers Association. January 2008. *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA)*.

California Air Resources Board. October 2011. *Greenhouse Gas Inventory Data – 2000 to 2008*. http://www.arb.ca.gov/cc/inventory/data/data.htm

California Air Resources Board (ARB). June 2013. Area Designations Maps/State and National. Accessed on January 2015. Accessed at http://www.arb.ca.gov/desig/adm/adm.htm

California Climate Action Registry (CCAR). January 2009. General Reporting Protocol, *Reporting Entity-Wide Greenhouse Gas Emissions*, Version 3.1.

California Climate Change Center. 2006. *Climate Scenarios for California*.

California Climate Change Center. May 2009. *The Impacts of Sea-Level Rise on the California Coast*.

California Department of Conservation. California Important Farmland Finder. Accessed January 2015. Accessed at: http://maps.conservation.ca.gov/ciff/ciff.html

California Department of Conservation. 2012. Tsunami Inundation Quads, Los Angeles County. Accessed January 2015. Accessed at: http://www.conservation.ca.gov/cgs/geologic_hazards/Tsunami/Inundation_Maps/LosAngeles/Pages/LosAngeles.aspx

California Department of Conservation, California Geological Survey. Alquist-Priolo Earthquake Fault Zone Maps. Accessed January 2015. Retrieved from: http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm.

California Department of Conservation, Division of Land Resource Protection. *Los Angeles County Williamson Act FY 2012/2013*. Accessed January 2015. Accessed at: ftp://ftp.consrv.ca.gov/pub/dlrp/wa/LA_12_13_WA.pdf

California Department of Finance (DOF). January 2014. E-5 County/State Population and Housing Estimates. Accessed January 2015. Accessed at: http://www.dof.ca.gov/research/demographic/reports/estimates/e-5/2011-20/view.php

California Department of Forestry and Fire Protection (CalFire). September 2011. Accessed January 2015. Accessed at: http://www.fire.ca.gov/fire_prevention/fhsz_maps/FHSZ/los_angeles/Los_Angeles.pdf

California Department of Toxic Substances Control. EnviroStor. Accessed on January 2015. Accessed at: https://www.envirostor.dtsc.ca.gov/public/

California Department of Toxic Substances Control (DTSC). DTSC's Hazardous Waste and Substances Site List- Site Cleanup. (Cortese List). http://www.calepa.ca.gov/SiteCleanup/CorteseList/default.htm, accessed online January 2015.

California Department of Water Resources. October 2008. *Managing an Uncertain Future: Climate Change Adaption Strategies for California's Water*. Available: http://www.water.ca.gov/climatechange/docs/ClimateChangeWhitePaper.pdf

California Emission Estimator Model, version 2013.2.2, accessed January 2015.

California Environmental Protection Agency. *Climate Action Team Biennial Report*. Final Report. April 2010.

California Environmental Protection Agency, March 2006. *Climate Action Team Report to Governor Schwarzenegger and the Legislature*. http://www.climatechange.ca.gov/climate_action_team/reports/2006-04-03_FINAL_CAT_REPORT_EXECSUMMARY.PDF

California Natural Resources Agency. December 2009. *2009 California Climate Adaption Strategy.* Available: http://www.energy.ca.gov/2010publications/CNRA-1000-2010-010/CNRA-1000-2010-010.PDF

Caltrans. N.D. California Scenic Highway Mapping System. Accessed January 2015. Accessed at http://www.dot.ca.gov/hq/LandArch/scenic_highways/

Federal Emergency Management Agency. Effective 9/26/2008. Flood Insurance Rate Map No. 06037C1829F.

FWS Wetlands Mapper. http://www.fws.gov/wetlands/Data/Mapper.html. Accessed January 2015.

Intergovernmental Panel on Climate Change [IPCC]. *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*. [Kroeze, C.; Mosier, A.; Nevison, C.; Oenema, O.; Seitzinger, S.; Cleemput, O. van; Conrad, R.; Mitra, A.P.; H.U., Neue; Sass, R.]. Paris: OECD, 1997.

Intergovernmental Panel on Climate Change [IPCC], 2007: Summary for Policymakers. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M.Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

Institute of Transportation Engineers. 2012. Trip Generation Manual, 8th Edition.

Los Angeles County. General Plan. Adopted November 25, 1980. Accessed on August 7, 2014. Accessed at http://planning.lacounty.gov/generalplan/existing

Los Angeles County. December 1990. *Technical Appendix to the Safety Element of the Los Angeles County General Plan Hazard Reduction in Los Angeles County*. Website: http://planning.lacounty.gov/assets/upl/project/gp_web80-tech-safety.pdf. Accessed January 2015.

Los Angeles County. GIS Viewer. Website: http://rpgis.isd.lacounty.gov/GIS-NET3_Public/Viewer.html. Accessed January 2015.

Los Angeles County Municipal Code. Website: http://search.municode.com/html/16274/index.htm. Accessed January 2015.

Los Angeles County, Airport Land Use Commission. Revised December 1, 2004. Los Angeles County Airport Land Use Plan. Website: http://planning.lacounty.gov/assets/upl/data/pd_alup.pdf. Accessed January 2015

Los Angeles County, Department of Public Works. February 2014. Low Impact Development Standards Manual. Accessed on January 2015. Accessed at http://dpw.lacounty.gov/ldd/lib/fp/Hydrology/Low%20Impact%20Development%20Standards%20Manual.pdf

Los Angeles County, Department of Regional Planning. N.D. GIS-NET3. Accessed January 2015. Accessed at http://planning.lacounty.gov/gisnet3

Los Angeles County Fire Department. Website: http://fire.lacounty.gov/. Accessed January 2015.

Los Angeles County General Plan, Safety Element-Plate 6, Flood and Inundation Hazard Map, http://planning.lacounty.gov/assets/upl/project/gp_web80-tech-plates-01-to-08.pdf, Accessed January 2015.

Los Angeles County GIS Data Portal. 2013. Significant Ecological Areas (SEA) – Existing/Adopted. Accessed January 2015. Accessed at http://egis3.lacounty.gov/dataportal/2013/09/05/significant-ecological-areas-sea/

Los Angeles County GIS Data Portal. 2014. National Forest. Accessed January 2015. Accessed at http://egis3.lacounty.gov/dataportal/2012/11/13/national-forest/

Los Angeles County Metropolitan Transportation Authority (Metro). Getting Around. Accessed January 2015. Accessed at: http://www.metro.net/

Los Angeles County Sanitation Districts (LACSD). An Ordinance Prescribing the Service Charge Rate and Mean Loadings per Unit of Usage for County Sanitation District No. 18. Website http://www.lacsd.org/civica/filebank/blobdload.asp?BlobID=2653. Accessed January 2015.

LACSD. Website http://www.lacsd.org/default.asp. Accessed January 2015.

National Wild and Scenic Rivers System. Website: http://www.rivers.gov/california.php. Accessed January 2015.

National Oceanic & Atmospheric Administration (NOAA). *Annual Greenhouse Gas Index*. September 2010. http://www.esrl.noaa.gov/gmd/aggi/

Rincon Consultants. Site Visit. December, 2014.

South Coast Air Quality Management District, Rules and Regulations. Website: http://www.aqmd.gov/rules/rulesreg.html. accessed January 2015.

South Coast Air Quality Management District (SCAQMD). November 1993. *CEQA Air Quality Handbook*.

SCAQMD. February 2005. Sample Construction Scenarios for Projects Less than Five Acres in Size. Accessed on January 2015. Accessed at http://www.aqmd.gov/docs/default-source/default-document-library/templates/finalreport.pdf?sfvrsn=2

SCAQMD. September 28, 2010.Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group Meeting #15. Accessed on July 30, 2014. Accessed at: www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2

SCAQMD. 2013. 2012 Air Quality Management Plan. Accessed at http://www.aqmd.gov/aqmp/2012aqmp/index.htm

Southern California Association of Governments (SCAG). Adopted 2008. Regional Transportation Plan, Growth Forecast by City. Retrieved from: http://gisdata.scag.ca.gov/Pages/SocioEconomicLibrary.aspx?keyword=Forecasting#

SCAG. Adopted April 2012. Regional Transportation Plan 2012-2035, Growth Forecast Appendix. Retrieved from: http://rtpscs.scag.ca.gov/Documents/2012/final/SR/2012fRTP_GrowthForecast.pdf

Southern California Edison. N.D. Website: Our Service Territory. Accessed January 2015. Accessed at https://www.sce.com/wps/portal/home/about-us/who-we-are/leadership/our-service-territory/

Southern California Gas Company (SoCalGas). N.D. Website: Company Profile. Accessed January 2015. Accessed at http://www.socalgas.com/about-us/company-info.shtml

State of California. 1999. Seismic Hazard Zones, Whittier Quadrangle.

State Water Resources Control Board. GeoTracker. Accessed 2014. Accessed at: http://geotracker.waterboards.ca.gov/

Tetra Tech, Inc. October 30, 2014. Phase I Environmental Site Assessment Los Nietos Library Site.

United Nations Framework Convention on Climate Change (UNFCCC). August 2007. *United Nations Framework Convention on Climate Change.* Available: http://unfccc.int/files/essential_background/convention/status_of_ratification/application/pdf/unfccc_conv_rat.pdf

United States Department of Energy, Energy Information Administration. *Annual Energy Review from the U.S. Government*. August 2010. http://www.eia.gov/aer/envir.html.

United States Environmental Protection Agency (USEPA). Climate Change Technology Program (CCTP). December 2007. http://www.epa.gov/climatechange/policy/cctp.html.

United States Environmental Protection Agency (USEPA). *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2009*. USEPA #430-R-11-005. April 2011. http://www.epa.gov/climatechange/emissions/usinventoryreport.html

U.S. Fish and Wildlife Service. Wetlands Mapper. Website: http://www.fws.gov/wetlands/Data/Mapper.html. Accessed January 2015.

University of California Davis-Caltrans Air Quality Project. December 2006. *Estimating Mobile Source Air Toxics Emissions: A Step-By-Step Project Analysis Methodology*.

This page intentionally left blank.

Appendix A

Air Quality Modeling Results

Los Nietos Library Project

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	32.00	Space	0.00	12,800.00	0
Library	7.00	1000sqft	0.80	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year from LACDC.

Land Use - Lot acreage and parking estimates from preliminary site plan provided by LACDC. Library lot acreage includes parking acreage.

Energy Use -

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQD Fugitive Dust Rule 403.

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.16	0.80
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.1703	0.8087	0.5383	7.8000e-004	7.5600e-003	0.0546	0.0622	2.2000e-003	0.0505	0.0527	0.0000	71.7192	71.7192	0.0186	0.0000	72.1101
Total	**0.1703**	**0.8087**	**0.5383**	**7.8000e-004**	**7.5600e-003**	**0.0546**	**0.0622**	**2.2000e-003**	**0.0505**	**0.0527**	**0.0000**	**71.7192**	**71.7192**	**0.0186**	**0.0000**	**72.1101**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.1703	0.8087	0.5383	7.8000e-004	7.0000e-003	0.0546	0.0616	1.9600e-003	0.0505	0.0524	0.0000	71.7192	71.7192	0.0186	0.0000	72.1100
Total	**0.1703**	**0.8087**	**0.5383**	**7.8000e-004**	**7.0000e-003**	**0.0546**	**0.0616**	**1.9600e-003**	**0.0505**	**0.0524**	**0.0000**	**71.7192**	**71.7192**	**0.0186**	**0.0000**	**72.1100**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**7.41**	**0.00**	**0.90**	**10.91**	**0.00**	**0.47**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0802	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0200e-003
Energy	7.1000e-004	6.4500e-003	5.4200e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	34.3880	34.3880	1.3900e-003	3.9000e-004	34.5378
Mobile	0.2025	0.5482	2.1507	4.9800e-003	0.3379	7.2800e-003	0.3452	0.0904	6.7000e-003	0.0971	0.0000	385.0094	385.0094	0.0154	0.0000	385.3322
Waste						0.0000	0.0000		0.0000	0.0000	1.3093	0.0000	1.3093	0.0774	0.0000	2.9342
Water						0.0000	0.0000		0.0000	0.0000	0.0695	1.9053	1.9748	7.2200e-003	1.9000e-004	2.1843
Total	**0.2834**	**0.5546**	**2.1566**	**5.0200e-003**	**0.3379**	**7.7700e-003**	**0.3457**	**0.0904**	**7.1900e-003**	**0.0976**	**1.3788**	**421.3036**	**422.6824**	**0.1014**	**5.8000e-004**	**424.9896**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0802	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0200e-003
Energy	7.1000e-004	6.4500e-003	5.4200e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	34.3880	34.3880	1.3900e-003	3.9000e-004	34.5378
Mobile	0.2025	0.5482	2.1507	4.9800e-003	0.3379	7.2800e-003	0.3452	0.0904	6.7000e-003	0.0971	0.0000	385.0094	385.0094	0.0154	0.0000	385.3322
Waste						0.0000	0.0000		0.0000	0.0000	1.3093	0.0000	1.3093	0.0774	0.0000	2.9342
Water						0.0000	0.0000		0.0000	0.0000	0.0695	1.9053	1.9748	7.2200e-003	1.9000e-004	2.1842
Total	**0.2834**	**0.5546**	**2.1566**	**5.0200e-003**	**0.3379**	**7.7700e-003**	**0.3457**	**0.0904**	**7.1900e-003**	**0.0976**	**1.3788**	**421.3036**	**422.6824**	**0.1014**	**5.8000e-004**	**424.9895**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,076; Non-Residential Outdoor: 3,692 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
Total	**6.5600e-003**	**0.0562**	**0.0435**	**6.0000e-005**		**4.0200e-003**	**4.0200e-003**		**3.8400e-003**	**3.8400e-003**	**0.0000**	**5.4141**	**5.4141**	**1.0800e-003**	**0.0000**	**5.4369**

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.9000e-004	3.0600e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5140	0.5140	3.0000e-005	0.0000	0.5145
Total	**2.0000e-004**	**2.9000e-004**	**3.0600e-003**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.5140**	**0.5140**	**3.0000e-005**	**0.0000**	**0.5145**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
Total	**6.5600e-003**	**0.0562**	**0.0435**	**6.0000e-005**		**4.0200e-003**	**4.0200e-003**		**3.8400e-003**	**3.8400e-003**	**0.0000**	**5.4141**	**5.4141**	**1.0800e-003**	**0.0000**	**5.4369**

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.9000e-004	3.0600e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5140	0.5140	3.0000e-005	0.0000	0.5145
Total	**2.0000e-004**	**2.9000e-004**	**3.0600e-003**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.5140**	**0.5140**	**3.0000e-005**	**0.0000**	**0.5145**

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
Total	**6.8000e-004**	**6.8200e-003**	**3.6700e-003**	**0.0000**	**2.7000e-004**	**4.2000e-004**	**6.9000e-004**	**3.0000e-005**	**3.8000e-004**	**4.1000e-004**	**0.0000**	**0.4414**	**0.4414**	**1.3000e-004**	**0.0000**	**0.4442**

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0257	0.0257	0.0000	0.0000	0.0257
Total	**1.0000e-005**	**1.0000e-005**	**1.5000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0257**	**0.0257**	**0.0000**	**0.0000**	**0.0257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
Total	**6.8000e-004**	**6.8200e-003**	**3.6700e-003**	**0.0000**	**1.2000e-004**	**4.2000e-004**	**5.4000e-004**	**1.0000e-005**	**3.8000e-004**	**3.9000e-004**	**0.0000**	**0.4414**	**0.4414**	**1.3000e-004**	**0.0000**	**0.4442**

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0257	0.0257	0.0000	0.0000	0.0257
Total	**1.0000e-005**	**1.0000e-005**	**1.5000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0257**	**0.0257**	**0.0000**	**0.0000**	**0.0257**

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
Total	**1.3100e-003**	**0.0112**	**8.7000e-003**	**1.0000e-005**	**7.5000e-004**	**8.0000e-004**	**1.5500e-003**	**4.1000e-004**	**7.7000e-004**	**1.1800e-003**	**0.0000**	**1.0828**	**1.0828**	**2.2000e-004**	**0.0000**	**1.0874**

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	6.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	1.0000e-005	0.0000	0.1029
Total	**4.0000e-005**	**6.0000e-005**	**6.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1028**	**0.1028**	**1.0000e-005**	**0.0000**	**0.1029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
Total	**1.3100e-003**	**0.0112**	**8.7000e-003**	**1.0000e-005**	**3.4000e-004**	**8.0000e-004**	**1.1400e-003**	**1.9000e-004**	**7.7000e-004**	**9.6000e-004**	**0.0000**	**1.0828**	**1.0828**	**2.2000e-004**	**0.0000**	**1.0874**

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	6.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	1.0000e-005	0.0000	0.1029
Total	**4.0000e-005**	**6.0000e-005**	**6.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1028**	**0.1028**	**1.0000e-005**	**0.0000**	**0.1029**

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
Total	**0.0691**	**0.6853**	**0.4106**	**5.7000e-004**		**0.0470**	**0.0470**		**0.0432**	**0.0432**	**0.0000**	**53.4584**	**53.4584**	**0.0161**	**0.0000**	**53.7970**

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3300e-003	0.0136	0.0175	3.0000e-005	9.2000e-004	2.1000e-004	1.1400e-003	2.6000e-004	2.0000e-004	4.6000e-004	0.0000	2.9587	2.9587	2.0000e-005	0.0000	2.9592
Worker	1.6000e-003	2.3600e-003	0.0245	5.0000e-005	4.3900e-003	4.0000e-005	4.4300e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	4.1116	4.1116	2.2000e-004	0.0000	4.1162
Total	**2.9300e-003**	**0.0160**	**0.0420**	**8.0000e-005**	**5.3100e-003**	**2.5000e-004**	**5.5700e-003**	**1.4300e-003**	**2.3000e-004**	**1.6600e-003**	**0.0000**	**7.0703**	**7.0703**	**2.4000e-004**	**0.0000**	**7.0754**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
Total	**0.0691**	**0.6853**	**0.4106**	**5.7000e-004**		**0.0470**	**0.0470**		**0.0432**	**0.0432**	**0.0000**	**53.4583**	**53.4583**	**0.0161**	**0.0000**	**53.7969**

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3300e-003	0.0136	0.0175	3.0000e-005	9.2000e-004	2.1000e-004	1.1400e-003	2.6000e-004	2.0000e-004	4.6000e-004	0.0000	2.9587	2.9587	2.0000e-005	0.0000	2.9592
Worker	1.6000e-003	2.3600e-003	0.0245	5.0000e-005	4.3900e-003	4.0000e-005	4.4300e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	4.1116	4.1116	2.2000e-004	0.0000	4.1162
Total	**2.9300e-003**	**0.0160**	**0.0420**	**8.0000e-005**	**5.3100e-003**	**2.5000e-004**	**5.5700e-003**	**1.4300e-003**	**2.3000e-004**	**1.6600e-003**	**0.0000**	**7.0703**	**7.0703**	**2.4000e-004**	**0.0000**	**7.0754**

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.8000e-003**	**0.0266**	**0.0182**	**3.0000e-005**		**1.6500e-003**	**1.6500e-003**		**1.5300e-003**	**1.5300e-003**	**0.0000**	**2.4575**	**2.4575**	**6.7000e-004**	**0.0000**	**2.4717**

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.6000e-004	2.7600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4626	0.4626	2.0000e-005	0.0000	0.4631
Total	**1.8000e-004**	**2.6000e-004**	**2.7600e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4626**	**0.4626**	**2.0000e-005**	**0.0000**	**0.4631**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.8000e-003**	**0.0266**	**0.0182**	**3.0000e-005**		**1.6500e-003**	**1.6500e-003**		**1.5300e-003**	**1.5300e-003**	**0.0000**	**2.4575**	**2.4575**	**6.7000e-004**	**0.0000**	**2.4717**

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.6000e-004	2.7600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4626	0.4626	2.0000e-005	0.0000	0.4631
Total	**1.8000e-004**	**2.6000e-004**	**2.7600e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4626**	**0.4626**	**2.0000e-005**	**0.0000**	**0.4631**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0856					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	5.9300e-003	4.7100e-003	1.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	0.6383	0.6383	8.0000e-005	0.0000	0.6399
Total	**0.0865**	**5.9300e-003**	**4.7100e-003**	**1.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.6383**	**0.6383**	**8.0000e-005**	**0.0000**	**0.6399**

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	3.0000e-005	3.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0514	0.0514	0.0000	0.0000	0.0515
Total	**2.0000e-005**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0514**	**0.0514**	**0.0000**	**0.0000**	**0.0515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0856					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	5.9300e-003	4.7100e-003	1.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	0.6383	0.6383	8.0000e-005	0.0000	0.6399
Total	**0.0865**	**5.9300e-003**	**4.7100e-003**	**1.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.6383**	**0.6383**	**8.0000e-005**	**0.0000**	**0.6399**

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	3.0000e-005	3.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0514	0.0514	0.0000	0.0000	0.0515
Total	**2.0000e-005**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0514**	**0.0514**	**0.0000**	**0.0000**	**0.0515**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2025	0.5482	2.1507	4.9800e-003	0.3379	7.2800e-003	0.3452	0.0904	6.7000e-003	0.0971	0.0000	385.0094	385.0094	0.0154	0.0000	385.3322
Unmitigated	0.2025	0.5482	2.1507	4.9800e-003	0.3379	7.2800e-003	0.3452	0.0904	6.7000e-003	0.0971	0.0000	385.0094	385.0094	0.0154	0.0000	385.3322

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	393.68	325.85	178.43	891,820	891,820
Parking Lot	0.00	0.00	0.00		
Total	393.68	325.85	178.43	891,820	891,820

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	27.3616	27.3616	1.2600e-003	2.6000e-004	27.4686
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	27.3616	27.3616	1.2600e-003	2.6000e-004	27.4686
NaturalGas Mitigated	7.1000e-004	6.4500e-003	5.4200e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0264	7.0264	1.3000e-004	1.3000e-004	7.0692
NaturalGas Unmitigated	7.1000e-004	6.4500e-003	5.4200e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0264	7.0264	1.3000e-004	1.3000e-004	7.0692

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	131670	7.1000e-004	6.4500e-003	5.4200e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0264	7.0264	1.3000e-004	1.3000e-004	7.0692
Total		**7.1000e-004**	**6.4500e-003**	**5.4200e-003**	**4.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**7.0264**	**7.0264**	**1.3000e-004**	**1.3000e-004**	**7.0692**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	131670	7.1000e-004	6.4500e-003	5.4200e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0264	7.0264	1.3000e-004	1.3000e-004	7.0692
Total		**7.1000e-004**	**6.4500e-003**	**5.4200e-003**	**4.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**7.0264**	**7.0264**	**1.3000e-004**	**1.3000e-004**	**7.0692**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	84350	24.1382	1.1100e-003	2.3000e-004	24.2326
Parking Lot	11264	3.2234	1.5000e-004	3.0000e-005	3.2360
Total		**27.3616**	**1.2600e-003**	**2.6000e-004**	**27.4686**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	84350	24.1382	1.1100e-003	2.3000e-004	24.2326
Parking Lot	11264	3.2234	1.5000e-004	3.0000e-005	3.2360
Total		**27.3616**	**1.2600e-003**	**2.6000e-004**	**27.4686**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0802	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0200e-003
Unmitigated	0.0802	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0716					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0200e-003
Total	**0.0802**	**0.0000**	**5.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**0.0000**	**1.0200e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.5600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0716					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0200e-003
Total	**0.0802**	**0.0000**	**5.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**0.0000**	**1.0200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.9748	7.2200e-003	1.9000e-004	2.1842
Unmitigated	1.9748	7.2200e-003	1.9000e-004	2.1843

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	0.219022 / 0.342573	1.9748	7.2200e-003	1.9000e-004	2.1843
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.9748**	**7.2200e-003**	**1.9000e-004**	**2.1843**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	0.219022 / 0.342573	1.9748	7.2200e-003	1.9000e-004	2.1842
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.9748**	**7.2200e-003**	**1.9000e-004**	**2.1842**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.3093	0.0774	0.0000	2.9342
Unmitigated	1.3093	0.0774	0.0000	2.9342

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	6.45	1.3093	0.0774	0.0000	2.9342
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**1.3093**	**0.0774**	**0.0000**	**2.9342**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	6.45	1.3093	0.0774	0.0000	2.9342
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**1.3093**	**0.0774**	**0.0000**	**2.9342**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Los Nietos Library Project

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	32.00	Space	0.00	12,800.00	0
Library	7.00	1000sqft	0.80	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year from LACDC.

Land Use - Lot acreage and parking estimates from preliminary site plan provided by LACDC. Library lot acreage includes parking acreage.

Energy Use -

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQD Fugitive Dust Rule 403.

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.16	0.80
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	34.6016	14.0080	9.3534	0.0137	0.8645	0.9448	1.6694	0.4434	0.8692	1.2116	0.0000	1,339.1808	1,339.1808	0.3608	0.0000	1,346.7585
Total	**34.6016**	**14.0080**	**9.3534**	**0.0137**	**0.8645**	**0.9448**	**1.6694**	**0.4434**	**0.8692**	**1.2116**	**0.0000**	**1,339.1808**	**1,339.1808**	**0.3608**	**0.0000**	**1,346.7585**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	34.6016	14.0080	9.3534	0.0137	0.4505	0.9448	1.2553	0.2158	0.8692	0.9841	0.0000	1,339.1808	1,339.1808	0.3608	0.0000	1,346.7585
Total	**34.6016**	**14.0080**	**9.3534**	**0.0137**	**0.4505**	**0.9448**	**1.2553**	**0.2158**	**0.8692**	**0.9841**	**0.0000**	**1,339.1808**	**1,339.1808**	**0.3608**	**0.0000**	**1,346.7585**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.89	0.00	24.80	51.32	0.00	18.78	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Energy	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Mobile	1.2630	3.1366	13.0649	0.0317	2.1077	0.0446	2.1523	0.5632	0.0410	0.6042		2,700.4194	2,700.4194	0.1039		2,702.6003
Total	**1.7062**	**3.1720**	**13.0987**	**0.0320**	**2.1077**	**0.0473**	**2.1550**	**0.5632**	**0.0437**	**0.6069**		**2,742.8679**	**2,742.8679**	**0.1047**	**7.8000e-004**	**2,745.3076**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Energy	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Mobile	1.2630	3.1366	13.0649	0.0317	2.1077	0.0446	2.1523	0.5632	0.0410	0.6042		2,700.4194	2,700.4194	0.1039		2,702.6003
Total	**1.7062**	**3.1720**	**13.0987**	**0.0320**	**2.1077**	**0.0473**	**2.1550**	**0.5632**	**0.0437**	**0.6069**		**2,742.8679**	**2,742.8679**	**0.1047**	**7.8000e-004**	**2,745.3076**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,076; Non-Residential Outdoor: 3,692 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**		**0.8039**	**0.8039**		**0.7674**	**0.7674**		**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	**0.0416**	**0.0521**	**0.6486**	**1.4200e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**118.9583**	**118.9583**	**6.1000e-003**		**119.0863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**		**0.8039**	**0.8039**		**0.7674**	**0.7674**	**0.0000**	**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	**0.0416**	**0.0521**	**0.6486**	**1.4200e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**118.9583**	**118.9583**	**6.1000e-003**		**119.0863**

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
Total	**1.3593**	**13.6350**	**7.3401**	**9.3500e-003**	**0.5303**	**0.8338**	**1.3640**	**0.0573**	**0.7671**	**0.8243**		**973.0842**	**973.0842**	**0.2935**		**979.2481**

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0208	0.0260	0.3243	7.1000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		59.4791	59.4791	3.0500e-003		59.5432
Total	**0.0208**	**0.0260**	**0.3243**	**7.1000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**59.4791**	**59.4791**	**3.0500e-003**		**59.5432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
Total	**1.3593**	**13.6350**	**7.3401**	**9.3500e-003**	**0.2386**	**0.8338**	**1.0724**	**0.0258**	**0.7671**	**0.7928**	**0.0000**	**973.0842**	**973.0842**	**0.2935**		**979.2481**

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0208	0.0260	0.3243	7.1000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		59.4791	59.4791	3.0500e-003		59.5432
Total	**0.0208**	**0.0260**	**0.3243**	**7.1000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**59.4791**	**59.4791**	**3.0500e-003**		**59.5432**

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**	**0.7528**	**0.8039**	**1.5566**	**0.4138**	**0.7674**	**1.1811**		**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	**0.0416**	**0.0521**	**0.6486**	**1.4200e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**118.9583**	**118.9583**	**6.1000e-003**		**119.0863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**	**0.3387**	**0.8039**	**1.1426**	**0.1862**	**0.7674**	**0.9536**	**0.0000**	**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	**0.0416**	**0.0521**	**0.6486**	**1.4200e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**118.9583**	**118.9583**	**6.1000e-003**		**119.0863**

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
Total	**1.3816**	**13.7058**	**8.2122**	**0.0113**		**0.9398**	**0.9398**		**0.8646**	**0.8646**		**1,178.5549**	**1,178.5549**	**0.3555**		**1,186.0202**

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0251	0.2605	0.2992	6.5000e-004	0.0188	4.2300e-003	0.0230	5.3400e-003	3.8900e-003	9.2300e-003		65.4594	65.4594	4.7000e-004		65.4693
Worker	0.0333	0.0417	0.5189	1.1300e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		95.1666	95.1666	4.8800e-003		95.2691
Total	**0.0584**	**0.3022**	**0.8182**	**1.7800e-003**	**0.1082**	**4.9800e-003**	**0.1132**	**0.0291**	**4.5800e-003**	**0.0336**		**160.6260**	**160.6260**	**5.3500e-003**		**160.7383**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
Total	**1.3816**	**13.7058**	**8.2122**	**0.0113**		**0.9398**	**0.9398**		**0.8646**	**0.8646**	**0.0000**	**1,178.5549**	**1,178.5549**	**0.3555**		**1,186.0202**

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0251	0.2605	0.2992	6.5000e-004	0.0188	4.2300e-003	0.0230	5.3400e-003	3.8900e-003	9.2300e-003		65.4594	65.4594	4.7000e-004		65.4693
Worker	0.0333	0.0417	0.5189	1.1300e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		95.1666	95.1666	4.8800e-003		95.2691
Total	**0.0584**	**0.3022**	**0.8182**	**1.7800e-003**	**0.1082**	**4.9800e-003**	**0.1132**	**0.0291**	**4.5800e-003**	**0.0336**		**160.6260**	**160.6260**	**5.3500e-003**		**160.7383**

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1203**	**10.6282**	**7.2935**	**0.0111**		**0.6606**	**0.6606**		**0.6113**	**0.6113**		**1,083.5832**	**1,083.5832**	**0.2969**		**1,089.8175**

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0937	1.1675	2.5500e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		214.1249	214.1249	0.0110		214.3554
Total	**0.0749**	**0.0937**	**1.1675**	**2.5500e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**214.1249**	**214.1249**	**0.0110**		**214.3554**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1203**	**10.6282**	**7.2935**	**0.0111**		**0.6606**	**0.6606**		**0.6113**	**0.6113**	**0.0000**	**1,083.5832**	**1,083.5832**	**0.2969**		**1,089.8175**

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0937	1.1675	2.5500e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		214.1249	214.1249	0.0110		214.3554
Total	**0.0749**	**0.0937**	**1.1675**	**2.5500e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**214.1249**	**214.1249**	**0.0110**		**214.3554**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.2248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	**34.5933**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**		**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.3300e-003	0.0104	0.1297	2.8000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		23.7917	23.7917	1.2200e-003		23.8173
Total	**8.3300e-003**	**0.0104**	**0.1297**	**2.8000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**23.7917**	**23.7917**	**1.2200e-003**		**23.8173**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.2248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	**34.5933**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**	**0.0000**	**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.3300e-003	0.0104	0.1297	2.8000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		23.7917	23.7917	1.2200e-003		23.8173
Total	**8.3300e-003**	**0.0104**	**0.1297**	**2.8000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**23.7917**	**23.7917**	**1.2200e-003**		**23.8173**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2630	3.1366	13.0649	0.0317	2.1077	0.0446	2.1523	0.5632	0.0410	0.6042		2,700.4194	2,700.4194	0.1039		2,702.6003
Unmitigated	1.2630	3.1366	13.0649	0.0317	2.1077	0.0446	2.1523	0.5632	0.0410	0.6042		2,700.4194	2,700.4194	0.1039		2,702.6003

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	393.68	325.85	178.43	891,820	891,820
Parking Lot	0.00	0.00	0.00		
Total	393.68	325.85	178.43	891,820	891,820

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
NaturalGas Unmitigated	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	360.74	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Total		**3.8900e-003**	**0.0354**	**0.0297**	**2.1000e-004**		**2.6900e-003**	**2.6900e-003**		**2.6900e-003**	**2.6900e-003**		**42.4400**	**42.4400**	**8.1000e-004**	**7.8000e-004**	**42.6983**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	0.36074	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Total		**3.8900e-003**	**0.0354**	**0.0297**	**2.1000e-004**		**2.6900e-003**	**2.6900e-003**		**2.6900e-003**	**2.6900e-003**		**42.4400**	**42.4400**	**8.1000e-004**	**7.8000e-004**	**42.6983**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Unmitigated	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Total	**0.4393**	**4.0000e-005**	**4.0600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**8.5400e-003**	**8.5400e-003**	**2.0000e-005**		**9.0300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Total	**0.4393**	**4.0000e-005**	**4.0600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**8.5400e-003**	**8.5400e-003**	**2.0000e-005**		**9.0300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Los Nietos Library Project

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	32.00	Space	0.00	12,800.00	0
Library	7.00	1000sqft	0.80	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year from LACDC.

Land Use - Lot acreage and parking estimates from preliminary site plan provided by LACDC. Library lot acreage includes parking acreage.

Energy Use -

Construction Off-road Equipment Mitigation - Assumed compliance with SCAQD Fugitive Dust Rule 403.

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.16	0.80
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	34.6018	14.0187	9.3028	0.0135	0.8645	0.9448	1.6694	0.4434	0.8692	1.2116	0.0000	1,332.7213	1,332.7213	0.3609	0.0000	1,340.2993
Total	**34.6018**	**14.0187**	**9.3028**	**0.0135**	**0.8645**	**0.9448**	**1.6694**	**0.4434**	**0.8692**	**1.2116**	**0.0000**	**1,332.7213**	**1,332.7213**	**0.3609**	**0.0000**	**1,340.2993**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	34.6018	14.0187	9.3028	0.0135	0.4505	0.9448	1.2553	0.2158	0.8692	0.9841	0.0000	1,332.7213	1,332.7213	0.3609	0.0000	1,340.2993
Total	**34.6018**	**14.0187**	**9.3028**	**0.0135**	**0.4505**	**0.9448**	**1.2553**	**0.2158**	**0.8692**	**0.9841**	**0.0000**	**1,332.7213**	**1,332.7213**	**0.3609**	**0.0000**	**1,340.2993**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**47.89**	**0.00**	**24.80**	**51.32**	**0.00**	**18.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Energy	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Mobile	1.3106	3.2929	13.0796	0.0302	2.1077	0.0448	2.1525	0.5632	0.0412	0.6044		2,570.2342	2,570.2342	0.1040		2,572.4173
Total	**1.7538**	**3.3283**	**13.1134**	**0.0304**	**2.1077**	**0.0475**	**2.1552**	**0.5632**	**0.0439**	**0.6071**		**2,612.6827**	**2,612.6827**	**0.1048**	**7.8000e-004**	**2,615.1246**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Energy	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Mobile	1.3106	3.2929	13.0796	0.0302	2.1077	0.0448	2.1525	0.5632	0.0412	0.6044		2,570.2342	2,570.2342	0.1040		2,572.4173
Total	**1.7538**	**3.3283**	**13.1134**	**0.0304**	**2.1077**	**0.0475**	**2.1552**	**0.5632**	**0.0439**	**0.6071**		**2,612.6827**	**2,612.6827**	**0.1048**	**7.8000e-004**	**2,615.1246**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,076; Non-Residential Outdoor: 3,692 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**		**0.8039**	**0.8039**		**0.7674**	**0.7674**		**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	**0.0426**	**0.0572**	**0.5980**	**1.3300e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**111.5695**	**111.5695**	**6.1000e-003**		**111.6976**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**		**0.8039**	**0.8039**		**0.7674**	**0.7674**	**0.0000**	**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	**0.0426**	**0.0572**	**0.5980**	**1.3300e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**111.5695**	**111.5695**	**6.1000e-003**		**111.6976**

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
Total	**1.3593**	**13.6350**	**7.3401**	**9.3500e-003**	**0.5303**	**0.8338**	**1.3640**	**0.0573**	**0.7671**	**0.8243**		**973.0842**	**973.0842**	**0.2935**		**979.2481**

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0213	0.0286	0.2990	6.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.7848	55.7848	3.0500e-003		55.8488
Total	**0.0213**	**0.0286**	**0.2990**	**6.6000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**55.7848**	**55.7848**	**3.0500e-003**		**55.8488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
Total	**1.3593**	**13.6350**	**7.3401**	**9.3500e-003**	**0.2386**	**0.8338**	**1.0724**	**0.0258**	**0.7671**	**0.7928**	**0.0000**	**973.0842**	**973.0842**	**0.2935**		**979.2481**

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0213	0.0286	0.2990	6.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.7848	55.7848	3.0500e-003		55.8488
Total	**0.0213**	**0.0286**	**0.2990**	**6.6000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**55.7848**	**55.7848**	**3.0500e-003**		**55.8488**

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**	**0.7528**	**0.8039**	**1.5566**	**0.4138**	**0.7674**	**1.1811**		**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	**0.0426**	**0.0572**	**0.5980**	**1.3300e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**111.5695**	**111.5695**	**6.1000e-003**		**111.6976**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
Total	**1.3122**	**11.2385**	**8.7048**	**0.0120**	**0.3387**	**0.8039**	**1.1426**	**0.1862**	**0.7674**	**0.9536**	**0.0000**	**1,193.6106**	**1,193.6106**	**0.2386**		**1,198.6217**

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	**0.0426**	**0.0572**	**0.5980**	**1.3300e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**111.5695**	**111.5695**	**6.1000e-003**		**111.6976**

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
Total	**1.3816**	**13.7058**	**8.2122**	**0.0113**		**0.9398**	**0.9398**		**0.8646**	**0.8646**		**1,178.5549**	**1,178.5549**	**0.3555**		**1,186.0202**

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.2671	0.3592	6.5000e-004	0.0188	4.2700e-003	0.0230	5.3400e-003	3.9300e-003	9.2700e-003		64.9108	64.9108	4.8000e-004		64.9210
Worker	0.0341	0.0458	0.4784	1.0600e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		89.2556	89.2556	4.8800e-003		89.3581
Total	**0.0615**	**0.3129**	**0.8376**	**1.7100e-003**	**0.1082**	**5.0200e-003**	**0.1132**	**0.0291**	**4.6200e-003**	**0.0337**		**154.1664**	**154.1664**	**5.3600e-003**		**154.2791**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
Total	**1.3816**	**13.7058**	**8.2122**	**0.0113**		**0.9398**	**0.9398**		**0.8646**	**0.8646**	**0.0000**	**1,178.5549**	**1,178.5549**	**0.3555**		**1,186.0202**

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.2671	0.3592	6.5000e-004	0.0188	4.2700e-003	0.0230	5.3400e-003	3.9300e-003	9.2700e-003		64.9108	64.9108	4.8000e-004		64.9210
Worker	0.0341	0.0458	0.4784	1.0600e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		89.2556	89.2556	4.8800e-003		89.3581
Total	**0.0615**	**0.3129**	**0.8376**	**1.7100e-003**	**0.1082**	**5.0200e-003**	**0.1132**	**0.0291**	**4.6200e-003**	**0.0337**		**154.1664**	**154.1664**	**5.3600e-003**		**154.2791**

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1203**	**10.6282**	**7.2935**	**0.0111**		**0.6606**	**0.6606**		**0.6113**	**0.6113**		**1,083.5832**	**1,083.5832**	**0.2969**		**1,089.8175**

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.1029	1.0764	2.3900e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		200.8251	200.8251	0.0110		201.0556
Total	**0.0766**	**0.1029**	**1.0764**	**2.3900e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**200.8251**	**200.8251**	**0.0110**		**201.0556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1203**	**10.6282**	**7.2935**	**0.0111**		**0.6606**	**0.6606**		**0.6113**	**0.6113**	**0.0000**	**1,083.5832**	**1,083.5832**	**0.2969**		**1,089.8175**

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.1029	1.0764	2.3900e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		200.8251	200.8251	0.0110		201.0556
Total	**0.0766**	**0.1029**	**1.0764**	**2.3900e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**200.8251**	**200.8251**	**0.0110**		**201.0556**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.2248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	**34.5933**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**		**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.5100e-003	0.0114	0.1196	2.7000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		22.3139	22.3139	1.2200e-003		22.3395
Total	**8.5100e-003**	**0.0114**	**0.1196**	**2.7000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**22.3139**	**22.3139**	**1.2200e-003**		**22.3395**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.2248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	**34.5933**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**	**0.0000**	**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.5100e-003	0.0114	0.1196	2.7000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		22.3139	22.3139	1.2200e-003		22.3395
Total	**8.5100e-003**	**0.0114**	**0.1196**	**2.7000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**22.3139**	**22.3139**	**1.2200e-003**		**22.3395**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3106	3.2929	13.0796	0.0302	2.1077	0.0448	2.1525	0.5632	0.0412	0.6044		2,570.2342	2,570.2342	0.1040		2,572.4173
Unmitigated	1.3106	3.2929	13.0796	0.0302	2.1077	0.0448	2.1525	0.5632	0.0412	0.6044		2,570.2342	2,570.2342	0.1040		2,572.4173

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	393.68	325.85	178.43	891,820	891,820
Parking Lot	0.00	0.00	0.00		
Total	393.68	325.85	178.43	891,820	891,820

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
NaturalGas Unmitigated	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	360.74	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Total		**3.8900e-003**	**0.0354**	**0.0297**	**2.1000e-004**		**2.6900e-003**	**2.6900e-003**		**2.6900e-003**	**2.6900e-003**		**42.4400**	**42.4400**	**8.1000e-004**	**7.8000e-004**	**42.6983**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	0.36074	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4400	42.4400	8.1000e-004	7.8000e-004	42.6983
Total		**3.8900e-003**	**0.0354**	**0.0297**	**2.1000e-004**		**2.6900e-003**	**2.6900e-003**		**2.6900e-003**	**2.6900e-003**		**42.4400**	**42.4400**	**8.1000e-004**	**7.8000e-004**	**42.6983**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Unmitigated	0.4393	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Total	**0.4393**	**4.0000e-005**	**4.0600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**8.5400e-003**	**8.5400e-003**	**2.0000e-005**		**9.0300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.5400e-003	8.5400e-003	2.0000e-005		9.0300e-003
Total	**0.4393**	**4.0000e-005**	**4.0600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**8.5400e-003**	**8.5400e-003**	**2.0000e-005**		**9.0300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Greenhouse Gas Emission Worksheet

N20 Mobile Emissions Los Nietos Library Project

From URBEMIS 2007 Vehicle Fleet Mix Output:

Annual VMT: 891,820

Vehicle Type	Percent Type	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	46.0%	0.04	0.0184	0.04	0.0184
Light Truck < 3750 lbs	10.3%	0.05	0.00515	0.06	0.00618
Light Truck 3751-5750 lbs	23.2%	0.05	0.0116	0.06	0.01392
Med Truck 5751-8500 lbs	12.2%	0.12	0.01464	0.2	0.0244
Lite-Heavy Truck 8501-10,000 lbs	2.1%	0.12	0.00252	0.2	0.0042
Lite-Heavy Truck 10,001-14,000 lbs	0.5%	0.09	0.00045	0.125	0.000625
Med-Heavy Truck 14,001-33,000 lbs	1.0%	0.06	0.0006	0.05	0.0005
Heavy-Heavy Truck 33,001-60,000 lbs	2.9%	0.06	0.00174	0.05	0.00145
Other Bus	0.1%	0.06	0.00006	0.05	0.00005
Urban Bus	0.1%	0.06	0.00006	0.05	0.00005
Motorcycle	1.1%	0.09	0.00099	0.01	0.00011
School Bus	0.1%	0.06	0.00006	0.05	0.00005
Motor Home	0.4%	0.09	0.00036	0.125	0.0005
Total	**100.0%**		**0.05663**		**0.070435**

Total Emissions (metric tons) =
Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4	21	GWP
N2O	310	GWP
1 ton (short, US) =	0.90718474	metric ton

Annual Mobile Emissions:

	Total Emissions		Total CO2e units	
N20 Emissions:	0.0628	metric tons N2O	**19.47**	metric tons CO2e
		Project Total:	***19.47 metric tons CO2e***	

References

* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).
in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
Assume Model year 2000-present, gasoline fueled.

** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.

*** From URBEMIS 2007 results for mobile sources

Mitigation Measure/Condition of Approval	Action Required	When Monitoring to Occur	Monitoring Frequency	Responsible Agency or Party	Compliance Verification		
					Initial	Date	Comments
Cultural Resources							
Archaeological Resources. If potentially significant subsurface prehistoric or historic archaeological or paleontological resources are encountered during construction and/or earthmoving activities, the evaluation of any such resources shall proceed in accordance with the criteria outlined in Section 106 of the National Historic Preservation Act (1966, as amended), in accordance with CEQA Guidelines (1970, as amended), and in accordance with the County of Los Angeles General Plan. Specifically, all work must be halted in the immediate vicinity of the cultural resource found until a qualified archaeologist can assess the significance of the resource.	Verification during construction phase	During site grading	Periodically during site grading	CDC			

Key: **CDC – Community Development Commission of the County of Los Angeles**

GROUND LEASE AND JOINT USE AGREEMENT

BETWEEN

LOS NIETOS SCHOOL DISTRICT

AND

THE COUNTY OF LOS ANGELES

FOR EDUCATIONAL/RECREATIONAL USE OF PROPERTY

THIS GROUND LEASE AND JOINT USE AGREEMENT ("Agreement") is effective as of this 23rd day of June, 2015, by and between the Los Nietos School District, a California public District duly organized and existing under Chapter 1 of Division 3 of Title 2 of the Education Code of the State of California (hereinafter "District" or "Lessor"), and the County of Los Angeles, a body corporate and politic (hereinafter "County" or "Lessee"), (individually a "Party" and collectively "the Parties").

78383

RECITALS

WHEREAS, California Education Code section 10900 et seq. ("Community Recreation Programs Law") authorizes public authorities to organize, promote and conduct such programs that will contribute to the attainment of general educational and recreational objectives for children and adults, and further empowers public authorities to cooperate with each other to attain such objectives;

WHEREAS, the Community Recreation Programs Law defines "recreation" to include any activity which contributes to the "mental, or moral development of the individual or group participating therein" and includes any activity in the fields of art, handicrafts, science, and literature;

WHEREAS, District and County are authorized under California law to operate and maintain "recreation centers" which is defined by Education Code section 10901(f) to include libraries and meeting places;

WHEREAS, District owns property located at 11425 East Rivera Road, Whittier, California 90606, more commonly known as the District's Los Nietos Middle School ("Middle School Site");

WHEREAS, the Middle School Site includes approximately 0.668 acres (29,104 sq. ft.) of current field space property that may be used to construct a library, a description of which property is attached hereto as Exhibit A (hereinafter the "Library Property");

WHEREAS, County seeks property for construction of a public library ("Library") and operations thereafter including related community and recreational activities to be used jointly by County and the District for the provision of library and community services, and District is willing to enter into this Agreement to lease the County the Library Property for such purposes;

WHEREAS, the County desires to construct the Library on the Library Property to be used for community recreation, library, and meeting room activities as defined by Community Recreation Programs Law;

WHEREAS, County, at its sole cost and expense shall design, construct and maintain the Library structure on the Library Property, in accordance with the Library Construction Scope (hereinafter defined), to be prepared by the County;

WHEREAS, the Parties have entered into a Right of Entry and Use Agreement ("Entry Agreement") whereby the County inspected the Library Property;

WHEREAS, by entering into this Agreement the County evidences that the Library Property was acceptable for the Library, and filed a mitigated negative declaration for the construction of a Library up to 7,000 square feet;

WHEREAS, the County agrees to take all steps necessary to construct the Library, which it will own, in accordance with all applicable law at the County's sole cost; and

WHEREAS, the Parties desire to provide for the terms and conditions for the construction and use of the Library as are set forth in this Agreement.

NOW, THEREFORE, in consideration of the foregoing recitals and of the mutual promises of the covenants hereinafter contained, and for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

Section 1. Description of Property. A description and map depiction of the Library Property are attached hereto as Exhibit "A". County accepts the Property in its current "as-is" condition without any representations or warranties from the District as to its condition or suitability for the Library, or any associated County use.

Section 2. Lease and Grant of Use. District hereby leases to the County and grants the right to use the Library Property for constructing and operating the Library, and County hereby leases from the District the Library Property on which it will construct, own and operate the Library pursuant to the terms and conditions set forth herein. Rent for the initial term is waived as consideration for the County's improvement of Library Property and the District's use of portions of the Library Property. However, County agrees to construct the entire Library scope of work on the Library Property, and to grant the District use of portions of the Library upon its construction and operation of the Library as set forth herein. Furthermore, within thirty (30) days of substantial completion of the Library, County will make a payment directly to the

District not to exceed Two Hundred Fourteen Thousand Two Hundred Fifty Dollars ($214,250.00) to reimburse the District for direct costs related to the improvements to the District's portion of Middle School Site that are affected by the improvement to Library Property, consistent with scope of work attached at Exhibit "B." District agrees not to request reimbursement for any administrative or legal fees related to the Library project. This funding from the County is being provided in consideration of the fact that the District previously expended funds for work on the field area of the Middle School Site and that the District may need to modify some of the recent work completed on the Middle School Site due to the construction of the Library.

Section 3. Construction of the Library.

A. Construction Scope. County will provide all services necessary to construct the Library at its sole cost. The process for the construction of the Library will be as follows: Based on the County's assessment of the Middle School Site during its investigation under the Entry Agreement, County will prepare a complete scope of work for construction of the Library which will include plans depicting the location, size, and design of the Library and a Project Schedule establishing the approximate dates when work will commence, when the work will be completed, and the opening date of the library ("Library Construction Scope"). County shall present the entire Library Construction Scope and Project Schedule to the District for review and approval, which approval shall not be unreasonably withheld, which scope will include all construction necessary for the Library, as well as access, improvements and coordination with the existing Middle School Site to ensure District school security, ease of access to the Library from the District school facilities, and other improvements to the Middle School Site as may be reasonably required. District will have twenty (20) business days to review the Library Construction Scope and Project Schedule and if requested by District, the Parties shall meet in good faith to address any concerns the District has about Library Construction Scope and Project Schedule. Specifically, County shall ensure any work performed on the Middle School Site does not interfere with District activities. County will consider revisions to the Library Construction Scope provided during the review period to meet the District's reasonable needs and requests. provided that they do not impact the operation requirements for the Library. The Library Construction Scope shall be attached and incorporated into this Agreement as Exhibit "B."

If either Party concludes that: 1) development and/or construction of the Library is not feasible for any reason, 2) a mutual understanding regarding the terms of the Library Construction Scope cannot be reached, or 3) the Library Construction Scope is unacceptable, either Party may immediately terminate this Agreement with no penalty.

B. Construction Performance. Upon approval of the Library Construction Scope, County shall commence with the construction of the Library at a time mutually agreeable to both Parties. County shall be solely responsible for all costs incurred to construction the Library. Before entering into any agreement with any party to provide any work on the Property for Library construction ("Library Contractor"), County shall submit the name of the County's designated representatives, project manager and the selected contractor with contact information/ District personnel will direct all contacts during the construction period to the County's designated representatives and project manager. Contact information for the contractor is provided solely for the District's use during emergencies. County shall be solely responsible for all Library

Contractor's actions and shall defend and indemnify the District from any harm, claim, damage, or misdeed committed by any Library Contractor as set forth in Section 7 below. The District's approval of any Library Contractor shall not be constructed as changing or lessening County's indemnification obligations set forth herein.

County shall ensure the Library Construction complies with all applicable laws, regulations, and rules applicable to the Library and construction on Library Property, including, but not limited to, all prevailing wage requirements, Building Code regulations, and the Americans with Disabilities Act. County's indemnification obligations, set forth in Section 7 shall include any claims, damage, or action arising out of County's failure to comply with any applicable regulation applicable to the Library. All construction shall be performed diligently and in a good and workmanlike manner.

County shall pay all costs, including, but not limited to, demolition and construction, planning and permit fees, architectural, engineering and legal fees, taxes and insurance, for or related to the Library construction. County shall keep the Library Property and any adjacent Middle School Site area and construction thereon or therein free and clear of all mechanics' liens resulting from construction and/or alterations performed by, for or at the request of County, it being acknowledged and agreed that nothing herein is intended to state or imply that the Property is subject to mechanic's liens, as the Property is and will continue to constitute real property owned by a public entity during the entire term of this Agreement. County shall do all things reasonably necessary to prevent the filing of any such mechanic's or other liens against the Library Property and any adjacent Middle School Site area and construction thereon. If any such lien shall at any time be filed against the Library Property or any adjacent Middle School Site area and/or construction thereon or therein, County shall cause the same to be discharged of record or bonded over to the satisfaction of the District within thirty (30) days from County's receipt of a copy of such lien.

County shall deliver to District, promptly after County's receipt thereof, copies of any and all of the following instruments and documents pertaining to any construction on the Library Property: (a) plans and specifications for the Library construction, (b) test results, physical condition and environmental reports and assessments, inspections, and other due reports obtained by County relating to the Library Property, (c) permits, licenses, certificates of occupancy, and any and all other governmental approvals issued in connection with the Library, (d) agreements and contracts with architects, engineers and other design professionals executed with respect to the design of the Library, (e) construction contracts and other agreements with all Library Contractors including consultants, construction managers, general and other contractors, and equipment suppliers pertaining to the Library construction and (f) all guaranties and warranties pertaining to the Library construction.

Notwithstanding anything to the contrary stated or implied in this Agreement, County shall not take any action or give any approval that will result in a change in the zoning of the Library Property that will be binding on the Library Property or impact or affect District after the expiration or earlier termination of this Agreement, or alter, eliminate or in any way modify any of the entitlements for the Library Property in any manner that will be binding on the Library Property or District, in each case without prior written consent of the District.

Section 4. Library Operation and Use.

A. Library Operation. County will notify the District in writing upon completion of the Library and the date in which the County plans to open the Library for public use. County is solely responsible for ensuring the Library is constructed in accordance with applicable regulations and the terms of this Agreement before opening the Library to the public. Upon opening and operation, the Library will be used as a public access library and community meeting room consistent with all regulations applicable to such use and with the recreational and educational requirements of the Community Recreation Programs Law. County will insure all uses of the Library will not interfere with District activities, both on the Middle School Site and activities conducted in the Library. County will be the point of contact to the community for all Library and Library Property related concerns. If County plans to use the Library for any event that may create noise, increase traffic, or otherwise potentially interrupt District activities, it will provide the District with notification of the event. If requested by the District, the Parties will meet to discuss options to reduce or eliminate any potential interruption.

B. Joint Use. County is permitted to use the Library Property and Library improvements thereon during the day and evening seven (7) days per week to conduct County public library operations and provide a community meeting room. District's use of the Library will be scheduled in accordance with this Section 4(B), subject to the approval of the County Librarian. Approval will be contingent upon there being no conflict with the County operations and will not be unreasonably withheld.

i) Scheduling Meetings. County will meet with the District concurrent with the execution of this Agreement in order to develop a calendar for District use of the community meeting room and school visits to the Library, and will thereafter meet on an annual basis or more frequently, as needed, upon the request of either Party, in order to develop a calendar for District use of the community meeting room and school visits to the Library ("Scheduling Meeting"). At each Scheduling Meeting, the District and County will agree to an updated District Use Plan, in writing, which will establish the days, times and locations of the District's use of the Library for a period mutually agreeable to the County and the District. The schedule may include school visits during the Library's normal operating hours or visits when the Library is closed to the public. In the event that the District has a need to use the meeting room or schedule a library visit at a time not listed previously listed on the District Use Plan, the District may request said visit by contacting the Community Library Manager. County will work with District in good faith to accommodate the scheduling requested by the District.

ii) Community Meeting Room. County will be solely responsible for scheduling the use of the community meeting room in the Library, and will be entitled to retain any rental revenue generated therefrom. The meeting room shall be used in the following priority order: 1) regularly scheduled library activities, programs and meetings; 2) District meetings, activities, and programs; 3) community meetings. County will exercise its best efforts to meet District's needs for use of the room and not displace regular library meetings or activities. District will be exempt from paying any rental fee for use of the room for events sponsored, organized or hosted by the District. District will provide appropriate supervision for its use of the meeting room and agrees to follow reasonable security procedures for use of the community room during hours that the library is closed to the public including nights and weekends.

iii) Library Visits. All District visits to the Library must be scheduled in advance, and the County will not unreasonably withhold approval unless the visit interferes with regularly scheduled Library activities. District school visits may be scheduled when the Library is open to the public or during hours when the library is closed to public. During the District use periods, County will ensure District has unlimited access to, and use of, the designated areas within the Library and access to Library resources. All Library visits must be conducted during hours that County staff are regularly scheduled to work (which includes all hours the Library is open to the public, as well as one hour each morning before the Library is open to the public). In the event that the District needs to schedule a Library visit during hours that County staff are not regularly scheduled to work, then the District will reimburse the County for staffing costs to provide services and access to Library materials. The Library's regular hours of public operation will not be modified for District use. Hours of operation and budget will be discussed at the Scheduling Meetings.

C. Maintenance. County hereby acknowledges that it has inspected the Library Property during the Entry Agreement and concluded it is suitable for the construction and operation of the Library. County agrees that it will, at its sole cost and expense, keep and maintain (including custodial and grounds keeping services) the entire Library and the Library Property in good repair and appearance, except for ordinary wear and tear, and will with reasonable promptness make changes and repairs of every kind and nature which may be required to be made upon or in connection with the Library or the Library Property in order to keep and maintain the same in such good order, condition and repair. County will promptly repair any vandalism, including graffiti, on the Library or the Library Property. The District will not be required to maintain, repair or rebuild, or to make any alterations, replacements or renewals of any nature or description to the Library or the Library Property or to maintain the Library and the Library Property during the term of this Agreement, and County hereby expressly waives the right to make any repairs at the expense of the District.

D. Hazardous Materials. Under no circumstances during the term of this Agreement will County use or cause to be used in on the Library Property or the Library any hazardous or toxic substances or materials, and under no circumstance during the term of this Agreement shall County store or dispose of any such substances or materials in the Library.

E. Conduct of County, Employees and Invitees. County will ensure that all employees, invitees, and all others entering or using the Library will adhere to proper standards of public conduct. There will be no serving or consumption of alcohol in the Library or on the Library Property. Each Party agrees to utilize the Library in conformance with Federal and State law as well as District and County administrative regulations, ordinances, and policies.

F. Utilities. County will be responsible for payment of all utilities associated with operation and use of the Library. All such utilities will be separately metered from any District-owned property surrounding the Library Property.

G. Utility Easements. District will execute (as owner of the Property), acknowledge and deliver to County for recording, any reasonable grant of easement (i) over, upon, across or under the Property or any portion thereof, (ii) in favor of any governmental subdivision or any gas, electric, telephone or similar company and (iii) for the purpose of (a) widening any street, (b)

transmitting potable water, storm water, sewage, gas, electricity, telephone or other communication or (c) providing to the Property and the persons using and enjoying the Property such materials and services as are, from time to time customarily understood to be "utilities." The County will be solely responsive for all utilities and equipment provided pursuant to the easements established pursuant to this Section. District shall not incur any costs or expenses, including legal fees, in connection with any easement provided pursuant to this Section. County acknowledges that easements granted by public school districts must be in accordance with the requirements set forth in Education Code Section 17556 *et seq*.

H. Program Costs and Equipment. The Parties agree that each Party will provide all materials and equipment to be used in their respective activities on the Library with the exception that the District may use the audio-visual system of the community meeting room. County will provide training to District staff on the use of the audio-visual system.

I. Supervision and Security. County shall provide all necessary supervision and security for the general operation of the Library. District shall provide supervision of any activity conducted by the District in the Library. County shall designate one or more representatives, and will ensure that at least one such representative is present and available to the District at the Library during the District's use of any portion of the Library. However, the District is solely responsible for supervision and security of the community meeting room during periods of District use when the library is closed and County staff are not on duty.

J. Locks - Keying and Access Authorization. County will install fencing and an access gate required to separate the school from the Library Property. County will not provide the District with keys necessary to access the Library, as any District use of the Library will occur during Library hours, or extended hours as provided by Section 4(B) above. However, the District may be provided with keys and/or access cards and alarm codes for District use of the community meeting room area when the Library is closed and County staff are not on duty.

K. Parking. Parking for the Library will be established in the Library Construction Scope. No overnight parking shall be allowed. All vehicles shall be parked only in marked parking areas and loading areas not in other areas not specifically designated for parking. County agrees to provide adequate signage noting that the Library parking is a County parking lot and is subject to enforcement and tow.

Section 5. Term. Subject to Section 6 of this Agreement, the term of this Agreement shall be fifty (50) years ("Term"), unless mutually extended in writing by both Parties. Upon the expiration or termination of this Agreement, at any time or upon any grounds provided herein, County shall immediately vacate the Library, and unless the District requires their removal in writing, all construction on the Property shall become the property of the District and remain upon, and be surrendered with, the District Open Space at the expiration of the Term.

County shall have the option to request an extension of the term for an additional period or periods totaling not more than fifty (50) years (excluding the initial term), subject to terms herein.

On or prior to the date which is twelve (12) months before the Term expiration date, provided County shall not then be in Default (as defined herein) under the provisions of this Agreement, the County may request to exercise an option to extend this Agreement for an additional term or terms of up to fifty (50) years total, by providing written notice to District. If County fails to exercise its option as provided for herein, this Agreement shall expire upon the original Term expiration date. Upon receipt of a request to extend the Term, the District may extend the Term expiration date for the period of the additional term or terms upon the same terms and conditions of this Agreement or modified terms and conditions, except that District may elect to charge County an annual rental fee, based on the fair market value of the Library Property, exclusive of the Library improvements, at the time of the request.

Section 6. Insurance.

Section 6(A) – Lessor/District Insurance:

A. Lessee Requirements. During the term of this Agreement, Lessor shall maintain a program of insurance coverage as described below. Lessor, at its sole option, may satisfy all or any part of this insurance requirement through use of a program of self-insurance. Certificate evidencing coverage or letter evidencing self-insurance will be provided to Lessee after execution of this Agreement.

B. Commercial General Liability Insurance. Providing scope of coverage equivalent to ISO policy form CG 00 01, naming Lessee and its Agents as an additional insured, with limits of not less than:

General Aggregate:	$ 2 million
Each Occurrence:	$ 1 million

C. General Insurance Provisions for all commercial insurance.

i. Evidence of Coverage and Notice to County.

- Certificate(s) of insurance and Additional Insured endorsement as it relates to the Lessor's General Liability coverage satisfactory to Lessee shall be delivered to Lessee at the address shown below and provided prior to the start day of this Agreement.

- Renewal Certificates shall be provided to Lessee not less than 10 days prior to Lessor's policy expiration dates. The Lessee reserves the right to obtain complete, certified copies of any required Lessor insurance policies at any time.

- Certificates shall identify all Required Insurance coverage types and limits specified herein, reference this Agreement by name or number, and be signed by an authorized representative of the insurer(s). The Insured party named on the Certificate shall match the name of the Lessor identified in this Agreement. Certificates shall provide the full name of each insurer providing coverage, where applicable its NAIC (National Association of Insurance Commissioners)

identification number, its financial rating, the amounts of any policy deductibles or self-insured retentions exceeding twenty five thousand ($25,000.00) dollars, and list any Lessee required endorsement forms.

- Neither the Lessee's failure to obtain, nor the Lessee's receipt of, or failure to object to a non-complying insurance certificate or endorsement, or any other insurance documentation or information provided by the Lessor, its insurance broker(s) and/or insurer(s), shall be construed as a waiver of any of the Required Insurance provisions.

- Certificates and copies of any required endorsements, notices of cancellation shall be delivered to:

  County of Los Angeles Public Library
  7400 East Imperial Highway
  Downey, CA 90242
  Attention: County Librarian

  Lessor also shall promptly notify Lessee of any third party claim or suit filed against Lessor which arises from or relates to this Agreement, and could result in the filing of a claim or lawsuit against Lessor and/or Lessee.

ii. Additional Insured Status and Scope of Coverage. The Lessee, which is the County of Los Angeles, its Special Districts, Elected Officials, Officers, Agents, Employees and Volunteers (collectively Lessee and its Agents), shall be provided additional insured status under Lessor purchased Commercial General Liability policy with respect to liability arising from or connected with the Lessor's acts, errors, and omissions arising from and/or relating to the Lessor's operations on and/or its ownership of the premises. The full policy limits and scope of protection also shall apply to the Lessee as an additional insured, even if they exceed the Lessee's minimum Required Insurance specifications herein. Use of an automatic additional insured endorsement form is acceptable providing it satisfies the Required Insurance provisions herein.

iii. Cancellation of or Change of Insurance. Lessor and Lessee shall provide each other with, or each Parties' insurance policies shall contain a provision that each Party shall receive, written notice of cancellation or any change in Required Insurance, including insurer, limits of coverage, term of coverage or policy period. The written notice shall be provided to each Party at least ten (10) days in advance of cancellation for non-payment of premium and thirty (30) days in advance for any other cancellation or policy change.

iv. Failure to Maintain Insurance. Either Party's failure to maintain or to provide acceptable evidence that it maintains the Required Insurance shall constitute a material breach of the Agreement,

v. Insurer Financial Ratings. Any commercial insurance is to be provided by an insurance company authorized to do business in California and acceptable to the Lessee, with an A.M. Best rating of not less than A:VII, unless otherwise approved by the Lessee.

vi. Waiver of Subrogation. To the fullest extent permitted by law, each Party hereby waives its and its insurer(s) rights of recovery against the other Party under all required insurance policies for any loss arising from or related to this Agreement. Each Party shall require its insurers to execute any waiver of subrogation endorsements which may be necessary to affect such waiver.

vii. Application of Excess Liability Coverage. Either Party may use a combination of primary and excess insurance policies which provide coverage as broad as ("follow form" over) the underlying primary policies, to satisfy the Required Insurance provisions.

viii. Separation of Insureds. All liability policies shall provide cross-liability coverage as would be afforded by the standard ISO (Insurance Services Office, Inc.) separation of insureds provision with no insured versus insured exclusions or limitations.

Section 6(B) – Lessee/County Insurance:

A. Lessee Requirements. During the term of this Agreement, Lessee shall maintain a program of insurance coverage as described below. Lessee, at its sole option, may satisfy all or any part of this insurance requirement through use of a program of self insurance (self-funding of its liabilities). Certificate evidencing coverage or letter evidencing self-funding will be provided to Lessor after execution of this Agreement.

B. Commercial General Liability Insurance. Providing scope of coverage equivalent to ISO policy form CG 00 01, naming Lessor and its Agents as an additional insured, with limits of not less than:

General Aggregate:	$ 2 million
Each Occurrence:	$ 1 million

C. Lessees Requirements (Construction Period). During the period of construction, Lessee or Lessee Contractor's shall provide and maintain the following programs of insurance coverage with limits determined by Lessee.

D. Builder's Risk Course of Construction Insurance. Such coverage shall insure against damage from perils covered by the Causes-of-Loss Special Form (ISO form CP 10 30). This insurance shall be endorsed to include earthquake, flood, ordinance or law coverage, coverage for temporary offsite storage, debris removal, pollutant cleanup and removal, testing, preservation of property, excavation costs, landscaping, shrubs and plants, and full collapse coverage during construction, without restricting collapse coverage to specified perils. Such insurance shall be extended to include boiler & machinery coverage for air conditioning, heating and other equipment during testing. This insurance shall be written on a completed-value basis and cover the entire value of the construction project, including Lessor furnished materials and equipment, against loss or damage until completion and acceptance by the Lessee and the Lessor if required.

E. General Liability Insurance. Such coverage shall be written on ISO policy form CG 00 01 or its equivalent, naming Lessor as an additional insured, with limits of not less than:

General Aggregate:	$2 million
Each Occurrence:	$1 million

The Products/Completed Operations coverage shall continue to be maintained in the amount indicated above for at least two (2) years from the date the Project is completed and accepted by the Lessee and the Lessor if required.

F. Commercial Property Insurance. Such coverage shall:

Provide coverage for Lessee's property and any improvements and betterments; this coverage shall be at least as broad as that provided by the Causes-of-Loss Special Form (ISO form CP 10 30), excluding earthquake and including flood and ordinance or law coverage.

Be written for the full replacement cost of the property, with a deductible no greater than $250,000 or 5% of the property value, whichever is less. Insurance proceeds shall be payable to the Lessee and Lessor as their interests may appear.

F. Automobile Liability. Such coverage shall be written on ISO policy form CA 00 01 or its equivalent with limits of not less than $2 million for bodily injury and property damage, in combined or equivalent split limits, for each single accident. Such insurance shall cover liability arising out of Lessee's or Lessee's contractor use of autos pursuant to this Agreement, including owned, leased, hired, and/or non-owned autos, as each may be applicable.

G. Professional Liability. Such insurance shall cover liability arising from any error, omission, negligent, or wrongful act of the Lessee's contractor and/or licensed professional (i.e. architects, engineers, surveyors, etc.) with limits of not less than $1 million per claim and $2 million aggregate. The coverage shall also provide an extended two-year reporting period commencing upon expiration, termination or cancellation of the construction project.

H. Workers' Compensation and Employers' Liability Insurance. Workers' Compensation and Employers' Liability Insurance or qualified self-insurance satisfying statutory requirements. Such coverage shall provide Employers' Liability coverage with limits of not less than $1 million per accident. Such policy shall be endorsed to waive subrogation against the Lessor for injury to the Lessee's or Lessee's contractor employees. If Lessee or Lessee's contractor will provide leased employees, or, is an employee leasing or temporary staffing firm or a professional employer organization (PEO), coverage also shall include an Alternate Employer Endorsement (providing scope of coverage equivalent to ISO policy form WC 00 03 01 A) naming the Lessor as the Alternate Employer, and the endorsement form shall be modified to provide that Lessor

will receive not less than thirty (30) days advance written notice of cancellation of this coverage provision.

I. Asbestos Liability or Contractors Pollution Liability Insurance. Asbestos Liability or Contractors Pollution Liability Insurance is needed if construction requires remediation of asbestos or pollutants. Such insurance shall cover liability for personal injury and property damage arising from the release, discharge, escape, dispersal or emission of asbestos, whether gradual or sudden, and include coverage for the costs and expenses associated with voluntary clean-up, testing, monitoring and treatment of asbestos in compliance with governmental mandate or requests. If the asbestos or pollutant will be removed from the construction site, asbestos or pollution liability is also required under the Lessee's or Lessee's contractor Automobile Liability Insurance. Lessee or Lessee's contractor shall maintain limits of not less than $1million.

Section 7. Indemnification.

A. County shall be responsible for, and District shall not be answerable or accountable in any manner for any loss or expense by reason of any damage or injury to person or property, or both, arising out of the acts of County, its agents, officers, employees, guests or invitees, or resulting from County's activities on the Library Property or the Library, including the construction of the Library, or from any cause whatsoever arising out of or in connection with this Agreement or any other use or operations at the Library, including the construction of the Library. County shall indemnify and defend District, its directors, officers, agents, employees, and invitees against and will hold and save them and each of them harmless from any and all actions, claims, liens, damages to persons or property, penalties, obligations or liabilities that may be asserted or claimed by any person, firm, association, entity, corporation, political subdivision, or other organization arising out of or in connection with the Library, the construction of the Library, this Agreement, and any other use of and operations on the Library Property or the Library pursuant to this Agreement, whether or not there is concurrent passive negligence on the part of District, its agents, employees or officers, but excluding such actions, claims, damages to persons or property, penalties, obligations or liabilities arising from the sole active negligence or willful misconduct of District. County further agrees to indemnify, defend and hold harmless District, its directors, officers and employees and each of them from any claim or cause of action arising out of or related to liability resulting from violation of any applicable Federal, State or local statute, ordinance, order, requirement, law or regulation applicable to the Library, including, without limitation, any applicable labor laws and/or regulations to the use and construction of the Library. In connection therewith:

(i) Actions Filed. County shall defend any action or actions filed in connection with any of said claims, liens, damages, penalties, obligations or liabilities, and will pay all costs and expenses, including attorneys' fees incurred in connection therewith.

(ii) Judgments Rendered. County shall promptly pay any judgment rendered against County or District covering such claims, liens, damages, penalties, obligations and liabilities arising out of or in connection with such use of, operations at, and construction of the Library referred to herein and agrees to save and hold District harmless therefrom.

(iii) Costs and Expenses; Attorneys' Fees. In the event District is made a party to any action or proceeding filed or prosecuted against County for such damages or other claims arising out of the construction or operation of the Library referred to herein, County agrees to pay District any and all costs and expenses incurred by them in such action or proceeding together with reasonable attorneys' and expert witness fees.

B. District shall be responsible for, and County shall not be answerable or accountable in any manner for any loss or expense by reason of any damage or injury to person or property, or both, arising out of the acts of District, its agents, officers, employees, guests or invitees, or resulting from District's activities on the Library Property, or from any cause whatsoever arising out of or in connection with the District's ownership or operation of the underlying land. District shall indemnify and defend County, its directors, officers, agents, employees, and invitees against and will hold and save them and each of them harmless from any and all actions, claims, liens, damages to persons or property, penalties, obligations or liabilities that may be asserted or claimed by any person, firm, association, entity, corporation, political subdivision, or other organization arising out of or in connection with the ownership of Library Property and this Agreement, but excluding such actions, claims, damages to persons or property, penalties, obligations or liabilities arising from the negligence or willful misconduct of County.

(i) Actions Filed. District shall defend any action or actions filed in connection with any of said claims, liens, damages, penalties, obligations or liabilities, and will pay all costs and expenses, including attorneys' fees incurred in connection therewith.

(ii) Judgments Rendered. District shall promptly pay any judgment rendered against County or District covering such claims, liens, damages, penalties, obligations and liabilities arising out of or in connection with District's ownership of the Library Property.

The provisions of this Section shall survive the termination or expiration of this Agreement.

Section 8. Compliance with Laws. The Library shall be constructed and all work on the Library Property shall be performed in accordance with all valid laws, ordinances and regulations of all federal, state, county or local governmental agencies having jurisdiction over the Property, including but not limited to the Americans with Disabilities Act of 1990 ("ADA") and the regulations promulgated thereunder, as amended from time to time (but excluding the California Education Code requirements and standards for school facilities). All work performed on the Library Property under this Agreement shall be done in a good and workmanlike manner. County shall ensure physical barriers are present during the entire construction of the Library in order to separate the Middle School Site and all students thereon from the Library project and its construction.

Section 9. Termination. If either Party fails to perform any term, covenant or condition of this Agreement, or otherwise breaches this Agreement, and such failure or breach continues for more than thirty (30) days after written notice is received by the defaulting Party (or if the breach or default is of such character as to reasonably require more than thirty (30) days to cure, and the defaulting Party fails, within thirty (30) days after it receives written notice of such breach or default from the non-defaulting Party, to commence the cure of such default or

thereafter fails to pursue with reasonable diligence the curing of such default to completion), then the non-defaulting Party may, at its option and without any further demand or notice terminate this Agreement. If District obtains the right to terminate this Agreement pursuant to this Section, and County is in the process of constructing the Library, County shall be responsible for all costs necessary to restore the Property to the condition it was prior to the execution of this Agreement unless District agrees, in writing, to accept a portion of the construction or changes provided by County.

Section 10. Legal Interpretation of Instrument. This Agreement shall be governed by the laws of the State of California.

Section 11. Notices. Any notice, request, information or other document to be given hereunder to any of the Parties by any other Parties shall be in writing and shall be deemed given and served upon delivery, if delivered personally, or three (3) days after mailing by United States mail as follows:

If to COUNTY: COUNTY OF LOS ANGELES PUBLIC LIBRARY
ATTN: County Library
7400 East Imperial Highway
Downey, California 90242
ATTN: County Librarian

If to DISTRICT: LOS NIETOS SCHOOL DISTRICT
8324 South Westman Avenue
Whittier, CA 90606
Attn: Douglas McMasters, Assistant Superintendent of Business

Any Party may change the address or persons to which notices are to be sent to it by giving the written notice that such change of address or persons to the other Parties in the manner provided for giving notice. The Parties will provide each other after-hours emergency contact phone numbers of appropriate supervisory staff which shall be periodically updated.

Section 12. Official Representatives. The official representative for District shall be the District Superintendent or its designee. The official representative for County shall be the County Librarian or its designee.

Section 13. Employees/Independent Contractors. For purposes of this Agreement, all persons employed by County in the performance of services and functions with respect to this Agreement shall be deemed employees of County and no County employee shall be considered as an employee of the District under the jurisdiction of District, nor shall such County employees have any District pension, civil service, or other status while an employee of the County.

County shall have no authority to contract on behalf of District. It is expressly understood and agreed by both Parties hereto that County, while engaged in carrying out and complying with any terms of this Agreement, is not acting as an agent, officer, or employee of District.

Section 14. **Quiet Enjoyment**. District covenants and agrees that it will not take any action to prevent County's quiet enjoyment of the Property during the term of this Agreement.

Section 15. **Right of Entry.** District reserves the right for any of its duly authorized representatives to enter the Property at any reasonable time for any reasonable actions, including but not limited to (i) inspecting the Library Property and (ii) posting in such places as District may select notices of non-responsibility for works of construction, repair or improvement made by County. In doing so, District shall not interfere with County's enjoyment and use of the Library Property and the Library.

Section 16. **Eminent Domain.**

A. Agreement Governs. In the event of any acquisition of all or any part of the Property, or any interest therein by eminent domain, whether by condemnation proceeding or transfer in avoidance of an exercise of the power of eminent domain or otherwise during the Term or any extension thereof, the rights and obligations of the Parties with respect to such appropriation shall be as provided in this Article 16.

B. Termination of Agreement. This Agreement shall terminate if the entire Library Property is permanently taken under the power of eminent domain or if a material part of the Library Property is taken such that the operation of the Library cannot feasibly continue on the remaining portion of the Library Property. If only a part of the Library Property is permanently taken under the power of eminent domain and the County can reasonably continue to operate the Library as contemplated by this Agreement, this Agreement shall not terminate and shall remain in full force in effect with respect to the remaining portion of the Library Property.

C. Allocation of Condemnation Award. In the event of a permanent condemnation or taking of all or part of the Library Property at any point during the Term or any extension thereof, the District shall be entitled to any award which may be made in such taking or condemnation to the extent such award relates to the fee title to the Library Property, and County shall be entitled to any award which may be made in such taking or condemnation to the extent it relates to the Library. Nothing contained in this Article 16 shall be deemed to give the District any interest in or to require County to assign to District any separate award, as designated by the condemning authority, and County shall be able to retain any separate award as designated by the condemning authority, made to County for the taking of County's personal property, or the interruption of or damage to County's operations on the Library Property, except to the extent that the separate award includes damages for lost sublease rent, in which case District shall be entitled to its share of those damages.

Section 17. Miscellaneous.

A. Attorneys' Fees; Litigation. In the event any action or suit is brought by a Party against another Party by reason of the breach of any of the covenants or agreements set forth in this Agreement or any other dispute between the Parties concerning this Agreement, each Party shall be responsible for its own attorney's fees and costs.

B. Assignment/Subletting. County shall not assign or sublet this Agreement or any right or privilege County might have under this Agreement without the prior written consent of District, which consent maybe withheld and/or conditioned at the discretion of the District. Notwithstanding the foregoing, County may allow third-parties to use the Community Meeting Room subject to the County Library's normal policies and procedures for such use.

C. Signs. County shall have the right to place, construct or maintain permanent exterior signage with District's prior written consent, which will not be unreasonably withheld. Temporary signage or banners promoting library activities or events will not require approval by the District. Should District take issue with any such signage or banner, the Parties will meet at its first convenience to address such signage or banner.

D. Time of the Essence. Time is of the essence with respect to each of the terms, covenants, and conditions of this Agreement.

E. Severability. If any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

F. Entire Agreement, Waivers and Amendments. This Agreement incorporates all of the terms and conditions mentioned herein, or incidental hereto, and supersedes all negotiations and previous agreements between the Parties with respect to all or part of the subject matter thereof. All waivers of the provisions of this Agreement must be in writing and signed by the appropriate authorities of the Party to be charged. Any amendment or modification to this Agreement must be in writing and executed by County and District.

G. Authority. The person(s) executing this Agreement on behalf of the Parties hereto warrant that (i) such Party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said Party, (iii) by so executing this Agreement, such Party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other agreement to which said Party is bound. In accordance with California Education Code section 17604, this Agreement is not a valid or enforceable obligation against the District until approved or ratified by motion of the Governing Board of the District duly passed and adopted.

H. Execution in Counterpart. This Agreement may be executed in several counterparts, and all so executed shall constitute one agreement binding on all Parties hereto, notwithstanding that all Parties are not signatories to the original or the same counterpart.

I. Effect of Recitals. The Recitals above are deemed true and correct, are hereby incorporated into this Section as though fully set forth herein, and County and District acknowledge and agree that they are each bound by the same.

J. Exhibits. All exhibits attached to this Agreement are incorporated herein by this reference and made a part hereof.

K. Conflicts of Interest. No director, officer, official, representative, agent or employee of either Party shall have any financial interest, direct or indirect, in this Agreement.

L. Nondiscrimination. There shall be no discrimination by County or District against any person on account of race, color, religion, sex, marital status, disability, gender, gender identity, gender expression, sexual orientation, ethnicity, national origin or nationality, or ancestry.

M. Rights and Remedies are Cumulative. Except as may be otherwise expressly stated in this Agreement, the rights and remedies of the Parties are cumulative, and the exercise by any Party of one or more of its right or remedies shall not preclude the exercise by it, at the same time or at different times, of any other rights or remedies for the same default or any other default by another Party.

N. Provisions Required by Law Deemed Inserted. Each and every provision of law and clause required by law to be inserted in this Agreement shall be deemed to be inserted herein and the Agreement shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon application of either Party the Agreement shall forthwith be physically amended to make such insertion or correction.

O. Cooperation. District and County acknowledge that it may be necessary to execute documents other than those specifically referred to herein in order to accomplish the objectives and requirements that are set out in this Agreement. Both District and County hereby agree to cooperate with each other by executing such other documents or taking such other actions as may be reasonably necessary to complete this transaction in accordance with the intent of the Parties as evidenced in this Agreement and attached Exhibit hereto.

P. Ambiguities not to be Construed against Drafting Party. The doctrine that any ambiguity contained in a contract shall be construed against the Party whose counsel has drafted the contract is expressly waived by each of the Parties hereto with respect to this Agreement.

Q. Joint Venture. It is not intended by this Agreement to, and nothing contained in this Agreement shall, create any partnership, joint venture or other agreement between District and County. No term or provision of this Agreement is intended to be, or shall be, for the benefit of any person, firm, organization or corporation not a party hereto, and no such other person, firm organization or corporation shall have any right or cause of action hereunder.

R. Days/Holidays. All references to days herein shall refer to calendar days unless otherwise noted. When performance of an obligation or satisfaction of a condition set forth in this Agreement is required on or by a date that is a Saturday, Sunday, or legal holiday, such performance or satisfaction shall instead be required on or by the next business day following that Saturday, Sunday, or holiday, notwithstanding any other provisions of this Agreement.

S. Nonliability of Officials. No officer, member, employee, agent, or representative of the Parties shall be personally liable for any amounts due hereunder, and no judgment or execution thereon entered in any action hereon, shall be personally enforced against any such officer, official, member, employee, agent, or representative.

T. No District Affiliation/Endorsement. County shall not imply, indicate or otherwise suggest that the Library or the County's use and/or any related activities are connected or

affiliated with, or are endorsed, favored or supported by, or are opposed by the District. No signage, flyers or other material may reference the District, any school name, logo or mascot without the District's written consent, except that County may indicate the location of County's activities.

U. Third Party Beneficiaries. Nothing in this Agreement shall be construed to confer any rights upon any party not signatory to this Agreement

[** Signatures on Following Page **]

IN WITNESS WHEREOF the Parties hereto have executed this Agreement as of the Effective Date.

LOS NIETOS SCHOOL DISTRICT

By: ORIGINAL SIGNED
Jonathan Vasquez, Superintendent

APPROVED AS TO FORM:

ATKINSON, ANDELSON, LOYA,
RUUD & ROMO

By: ORIGINAL SIGNED
Andreas C. Chialtas,
District Legal Counsel

COUNTY OF LOS ANGELES,
a body politic and corporate

By: Mike Antonovich
MICHAEL D. ANTONOVICH
Mayor, Board of Supervisors

783383

ATTEST:

PATRICK OGAWA
Acting Executive Officer
Board of Supervisors

By _____
Deputy

I hereby certify that pursuant to
Section 25103 of the Government Code,
delivery of this document has been made.

PATRICK OGAWA
Acting Executive Officer
Clerk of the Board of Supervisors

By _____
Deputy

APPROVED AS TO FORM:

MARK J. SALADINO
County Counsel

By _____
Jill M. Jones
Deputy County Counsel

ADOPTED
BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES

35 JUN 16 2015

PATRICK OGAWA
ACTING EXECUTIVE OFFICER

IN WITNESS WHEREOF the Parties hereto have executed this Agreement as of the Effective Date.

LOS NIETOS SCHOOL DISTRICT

By: _____
Jonathan Vasquez, Superintendent

APPROVED AS TO FORM:

ATKINSON, ANDELSON, LOYA,
RUUD & ROMO

By: _____
Andreas C. Chialtas,
District legal counsel

COUNTY OF LOS ANGELES,
a body politic and corporate

By: n/a see Mayor's signature at page 19, 6/16/15
CHRISTOPHER M. MONTANA
Director of Real Estate Division

ATTEST:

DEAN C. LOGAN
Registrar-Recorder/County Clerk
of the County of Los Angeles

By n/a see signature page 19
Deputy: _____

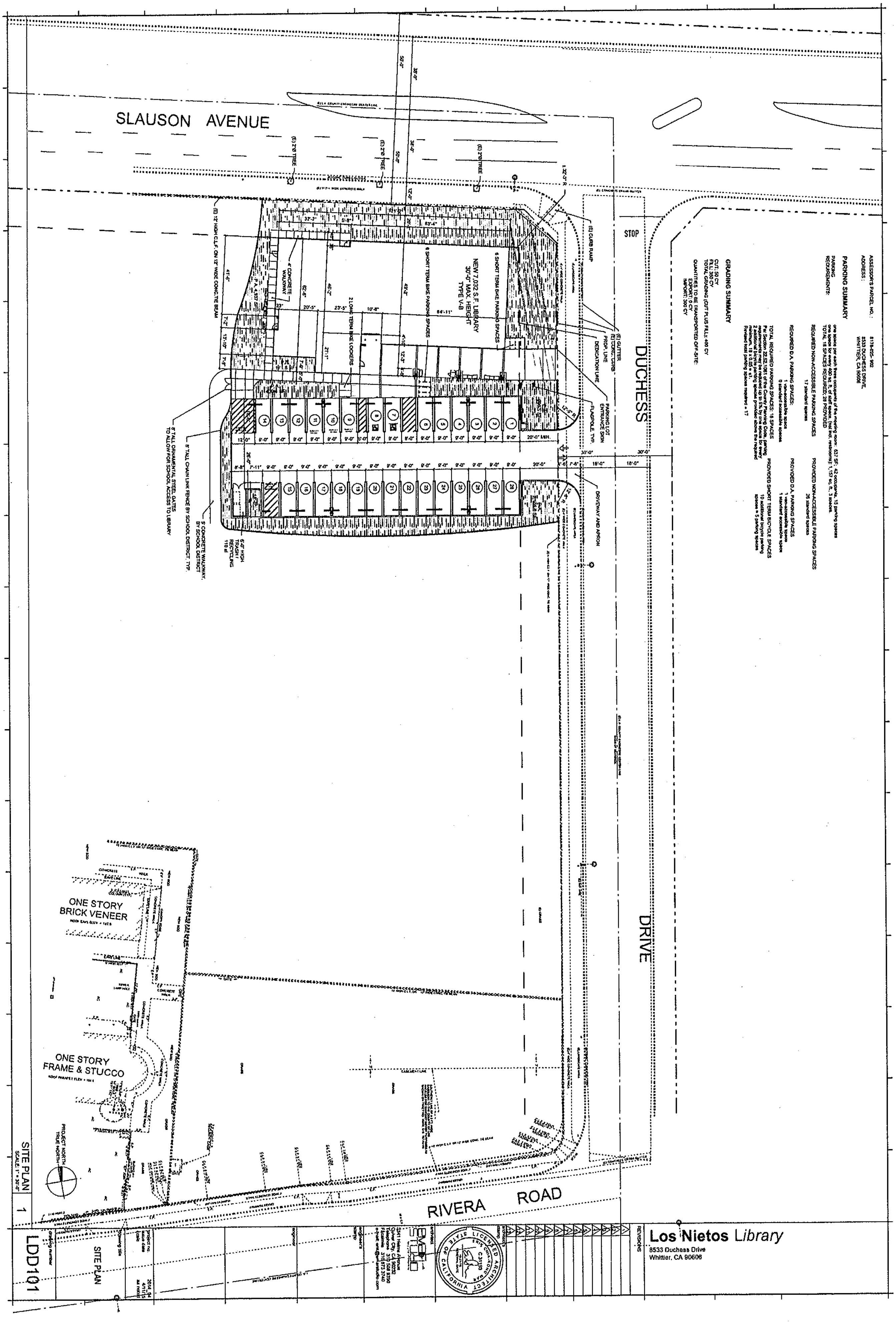
APPROVED AS TO FORM:

RICHARD D. WEISS
Acting County Counsel

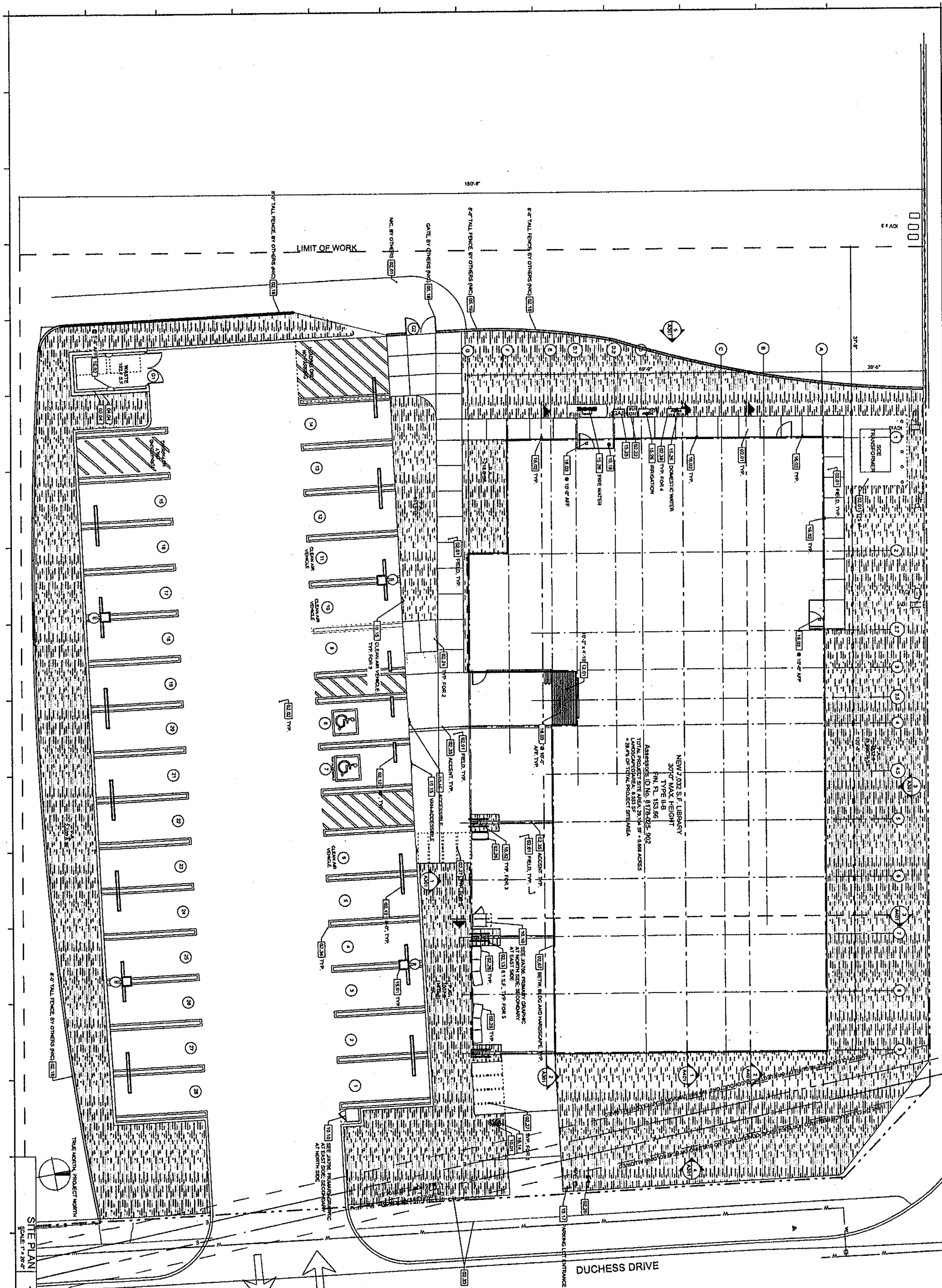
By n/a see signature page at 19.
Senior Deputy: _____

EXHIBIT "A"

DESCRIPTION AND PROPERTY



SLAUSON AVENUE
DUCHESS
DRIVE
RIVERA ROAD
STOP
NEW 7,032 S.F. LIBRARY
30'-0" MAX. HEIGHT
TYPE V-B
ONE STORY
BRICK VENEER
ONE STORY
FRAME & STUCCO
PARKING SUMMARY
GRADING SUMMARY
DRIVEWAY AND APRON
SITE PLAN
LDD101
Los Nietos Library
8533 Duchess Drive
Whittier, CA 90606
STATE OF CALIFORNIA



Los Nietos *Library*

8533 Duchess Drive
Whittier, CA 90606

REVISIONS

SITE PLAN

A101

EXHIBIT "B"

INSERT LIBRARY CONSTRUCTION SCOPE

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date_____, 2015 COUNTY OF LOS ANGELES.

By its: _____